Columbia Analytical Services™ 9143 Philips Hwy, Suite 200 | Jacksonville, FL 32256 | 904.739.2277 | 904.739.2011 fax | www.caslab.com

November 18, 2009 Service Request No: J0905440

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A.02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on November 4, 2009. For your reference, these analyses have been assigned our service request number **J0905440**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

100% Recycled Paper

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0905440
Project:	JED SWDF	**Date Received:**	11/4/09
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Four water samples and one trip blank were received for analysis at Columbia Analytical Services on 11/4/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile organics using EPA Method 8260. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total and Dissolved Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Approved by _____ **Date** 11/18/09

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for Ammonia (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 11/18/09

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02

Service Request: J0905440

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0905440-001	MW-19A	11/3/09	14:20
J0905440-002	MW-19C	11/3/09	14:40
J0905440-003	MW-16A	11/3/09	16:00
J0905440-004	MW-16B	11/3/09	16:25
J0905440-005	Trip Blank	11/3/09	00:00

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19A
Lab Code: J0905440-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/04/09	11/04/09	JWG0903673	
Vinyl Chloride	ND	U	1.0	0.25	1	11/04/09	11/04/09	JWG0903673	
Bromomethane	ND	U	1.0	0.14	1	11/04/09	11/04/09	JWG0903673	
Chloroethane	ND	U	5.0	0.19	1	11/04/09	11/04/09	JWG0903673	
Trichlorofluoromethane	ND	U	20	0.25	1	11/04/09	11/04/09	JWG0903673	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/04/09	11/04/09	JWG0903673	
Acetone	ND	U	50	2.4	1	11/04/09	11/04/09	JWG0903673	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/04/09	11/04/09	JWG0903673	
Carbon Disulfide	ND	U	10	0.84	1	11/04/09	11/04/09	JWG0903673	
Methylene Chloride	ND	U	5.0	0.72	1	11/04/09	11/04/09	JWG0903673	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/04/09	11/04/09	JWG0903673	
Acrylonitrile	ND	U	10	0.59	1	11/04/09	11/04/09	JWG0903673	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/04/09	11/04/09	JWG0903673	
Vinyl Acetate	ND	U	10	0.60	1	11/04/09	11/04/09	JWG0903673	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/04/09	11/04/09	JWG0903673	
2-Butanone (MEK)	ND	U	10	0.56	1	11/04/09	11/04/09	JWG0903673	
Bromochloromethane	ND	U	5.0	0.14	1	11/04/09	11/04/09	JWG0903673	
Chloroform	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/04/09	11/04/09	JWG0903673	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/04/09	11/04/09	JWG0903673	
Benzene	ND	U	1.0	0.52	1	11/04/09	11/04/09	JWG0903673	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/04/09	11/04/09	JWG0903673	
Dibromomethane	ND	U	5.0	0.12	1	11/04/09	11/04/09	JWG0903673	
Bromodichloromethane	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/04/09	11/04/09	JWG0903673	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/04/09	11/04/09	JWG0903673	
Toluene	ND	U	1.0	0.52	1	11/04/09	11/04/09	JWG0903673	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/04/09	11/04/09	JWG0903673	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/04/09	11/04/09	JWG0903673	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/04/09	11/04/09	JWG0903673	
2-Hexanone	ND	U	25	0.36	1	11/04/09	11/04/09	JWG0903673	
Dibromochloromethane	ND	U	1.0	0.11	1	11/04/09	11/04/09	JWG0903673	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19A
Lab Code: J0905440-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/04/09	11/04/09	JWG0903673	
Chlorobenzene	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
Ethylbenzene	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
m,p-Xylenes	ND	U	2.0	0.22	1	11/04/09	11/04/09	JWG0903673	
o-Xylene	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
Styrene	ND	U	1.0	0.051	1	11/04/09	11/04/09	JWG0903673	
Bromoform	ND	U	2.0	0.12	1	11/04/09	11/04/09	JWG0903673	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/04/09	11/04/09	JWG0903673	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/04/09	11/04/09	JWG0903673	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/04/09	11/04/09	JWG0903673	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/04/09	11/04/09	JWG0903673	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/04/09	11/04/09	JWG0903673	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	71-122	11/04/09	Acceptable
4-Bromofluorobenzene	97	75-120	11/04/09	Acceptable
Dibromofluoromethane	106	82-116	11/04/09	Acceptable
Toluene-d8	111	88-117	11/04/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19C
Lab Code: J0905440-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/05/09	11/05/09	JWG0903673	
Vinyl Chloride	ND	U	1.0	0.25	1	11/05/09	11/05/09	JWG0903673	
Bromomethane	ND	U	1.0	0.14	1	11/05/09	11/05/09	JWG0903673	
Chloroethane	ND	U	5.0	0.19	1	11/05/09	11/05/09	JWG0903673	
Trichlorofluoromethane	ND	U	20	0.25	1	11/05/09	11/05/09	JWG0903673	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/05/09	11/05/09	JWG0903673	
Acetone	ND	U	50	2.4	1	11/05/09	11/05/09	JWG0903673	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/05/09	11/05/09	JWG0903673	
Carbon Disulfide	ND	U	10	0.84	1	11/05/09	11/05/09	JWG0903673	
Methylene Chloride	ND	U	5.0	0.72	1	11/05/09	11/05/09	JWG0903673	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/05/09	11/05/09	JWG0903673	
Acrylonitrile	ND	U	10	0.59	1	11/05/09	11/05/09	JWG0903673	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/05/09	11/05/09	JWG0903673	
Vinyl Acetate	ND	U	10	0.60	1	11/05/09	11/05/09	JWG0903673	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
2-Butanone (MEK)	ND	U	10	0.56	1	11/05/09	11/05/09	JWG0903673	
Bromochloromethane	ND	U	5.0	0.14	1	11/05/09	11/05/09	JWG0903673	
Chloroform	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/05/09	11/05/09	JWG0903673	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/05/09	11/05/09	JWG0903673	
Benzene	ND	U	1.0	0.52	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/05/09	11/05/09	JWG0903673	
Dibromomethane	ND	U	5.0	0.12	1	11/05/09	11/05/09	JWG0903673	
Bromodichloromethane	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/05/09	11/05/09	JWG0903673	
Toluene	ND	U	1.0	0.52	1	11/05/09	11/05/09	JWG0903673	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/05/09	11/05/09	JWG0903673	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/05/09	11/05/09	JWG0903673	
2-Hexanone	ND	U	25	0.36	1	11/05/09	11/05/09	JWG0903673	
Dibromochloromethane	ND	U	1.0	0.11	1	11/05/09	11/05/09	JWG0903673	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-19C
Lab Code: J0905440-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/05/09	11/05/09	JWG0903673	
Chlorobenzene	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
Ethylbenzene	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
m,p-Xylenes	ND	U	2.0	0.22	1	11/05/09	11/05/09	JWG0903673	
o-Xylene	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
Styrene	ND	U	1.0	0.051	1	11/05/09	11/05/09	JWG0903673	
Bromoform	ND	U	2.0	0.12	1	11/05/09	11/05/09	JWG0903673	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/05/09	11/05/09	JWG0903673	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/05/09	11/05/09	JWG0903673	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/05/09	11/05/09	JWG0903673	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/05/09	11/05/09	JWG0903673	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	89	71-122	11/05/09	Acceptable
4-Bromofluorobenzene	97	75-120	11/05/09	Acceptable
Dibromofluoromethane	106	82-116	11/05/09	Acceptable
Toluene-d8	111	88-117	11/05/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16A
Lab Code: J0905440-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/05/09	11/05/09	JWG0903673	
Vinyl Chloride	ND	U	1.0	0.25	1	11/05/09	11/05/09	JWG0903673	
Bromomethane	ND	U	1.0	0.14	1	11/05/09	11/05/09	JWG0903673	
Chloroethane	ND	U	5.0	0.19	1	11/05/09	11/05/09	JWG0903673	
Trichlorofluoromethane	ND	U	20	0.25	1	11/05/09	11/05/09	JWG0903673	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/05/09	11/05/09	JWG0903673	
Acetone	ND	U	50	2.4	1	11/05/09	11/05/09	JWG0903673	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/05/09	11/05/09	JWG0903673	
Carbon Disulfide	ND	U	10	0.84	1	11/05/09	11/05/09	JWG0903673	
Methylene Chloride	ND	U	5.0	0.72	1	11/05/09	11/05/09	JWG0903673	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/05/09	11/05/09	JWG0903673	
Acrylonitrile	ND	U	10	0.59	1	11/05/09	11/05/09	JWG0903673	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/05/09	11/05/09	JWG0903673	
Vinyl Acetate	ND	U	10	0.60	1	11/05/09	11/05/09	JWG0903673	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
2-Butanone (MEK)	ND	U	10	0.56	1	11/05/09	11/05/09	JWG0903673	
Bromochloromethane	ND	U	5.0	0.14	1	11/05/09	11/05/09	JWG0903673	
Chloroform	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/05/09	11/05/09	JWG0903673	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/05/09	11/05/09	JWG0903673	
Benzene	ND	U	1.0	0.52	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/05/09	11/05/09	JWG0903673	
Dibromomethane	ND	U	5.0	0.12	1	11/05/09	11/05/09	JWG0903673	
Bromodichloromethane	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/05/09	11/05/09	JWG0903673	
Toluene	ND	U	1.0	0.52	1	11/05/09	11/05/09	JWG0903673	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/05/09	11/05/09	JWG0903673	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/05/09	11/05/09	JWG0903673	
2-Hexanone	ND	U	25	0.36	1	11/05/09	11/05/09	JWG0903673	
Dibromochloromethane	ND	U	1.0	0.11	1	11/05/09	11/05/09	JWG0903673	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16A
Lab Code: J0905440-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/05/09	11/05/09	JWG0903673	
Chlorobenzene	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
Ethylbenzene	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
m,p-Xylenes	ND	U	2.0	0.22	1	11/05/09	11/05/09	JWG0903673	
o-Xylene	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
Styrene	ND	U	1.0	0.051	1	11/05/09	11/05/09	JWG0903673	
Bromoform	ND	U	2.0	0.12	1	11/05/09	11/05/09	JWG0903673	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/05/09	11/05/09	JWG0903673	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/05/09	11/05/09	JWG0903673	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/05/09	11/05/09	JWG0903673	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/05/09	11/05/09	JWG0903673	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	91	71-122	11/05/09	Acceptable
4-Bromofluorobenzene	99	75-120	11/05/09	Acceptable
Dibromofluoromethane	107	82-116	11/05/09	Acceptable
Toluene-d8	111	88-117	11/05/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16B
Lab Code: J0905440-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/05/09	11/05/09	JWG0903673	
Vinyl Chloride	ND	U	1.0	0.25	1	11/05/09	11/05/09	JWG0903673	
Bromomethane	ND	U	1.0	0.14	1	11/05/09	11/05/09	JWG0903673	
Chloroethane	ND	U	5.0	0.19	1	11/05/09	11/05/09	JWG0903673	
Trichlorofluoromethane	ND	U	20	0.25	1	11/05/09	11/05/09	JWG0903673	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/05/09	11/05/09	JWG0903673	
Acetone	ND	U	50	2.4	1	11/05/09	11/05/09	JWG0903673	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/05/09	11/05/09	JWG0903673	
Carbon Disulfide	ND	U	10	0.84	1	11/05/09	11/05/09	JWG0903673	
Methylene Chloride	ND	U	5.0	0.72	1	11/05/09	11/05/09	JWG0903673	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/05/09	11/05/09	JWG0903673	
Acrylonitrile	ND	U	10	0.59	1	11/05/09	11/05/09	JWG0903673	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/05/09	11/05/09	JWG0903673	
Vinyl Acetate	ND	U	10	0.60	1	11/05/09	11/05/09	JWG0903673	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
2-Butanone (MEK)	ND	U	10	0.56	1	11/05/09	11/05/09	JWG0903673	
Bromochloromethane	ND	U	5.0	0.14	1	11/05/09	11/05/09	JWG0903673	
Chloroform	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/05/09	11/05/09	JWG0903673	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/05/09	11/05/09	JWG0903673	
Benzene	ND	U	1.0	0.52	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/05/09	11/05/09	JWG0903673	
Dibromomethane	ND	U	5.0	0.12	1	11/05/09	11/05/09	JWG0903673	
Bromodichloromethane	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/05/09	11/05/09	JWG0903673	
Toluene	ND	U	1.0	0.52	1	11/05/09	11/05/09	JWG0903673	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/05/09	11/05/09	JWG0903673	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/05/09	11/05/09	JWG0903673	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/05/09	11/05/09	JWG0903673	
2-Hexanone	ND	U	25	0.36	1	11/05/09	11/05/09	JWG0903673	
Dibromochloromethane	ND	U	1.0	0.11	1	11/05/09	11/05/09	JWG0903673	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16B
Lab Code: J0905440-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/05/09	11/05/09	JWG0903673	
Chlorobenzene	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
Ethylbenzene	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
m,p-Xylenes	ND	U	2.0	0.22	1	11/05/09	11/05/09	JWG0903673	
o-Xylene	ND	U	1.0	0.10	1	11/05/09	11/05/09	JWG0903673	
Styrene	ND	U	1.0	0.051	1	11/05/09	11/05/09	JWG0903673	
Bromoform	ND	U	2.0	0.12	1	11/05/09	11/05/09	JWG0903673	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/05/09	11/05/09	JWG0903673	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/05/09	11/05/09	JWG0903673	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/05/09	11/05/09	JWG0903673	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/05/09	11/05/09	JWG0903673	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/05/09	11/05/09	JWG0903673	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/05/09	11/05/09	JWG0903673	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	71-122	11/05/09	Acceptable
4-Bromofluorobenzene	97	75-120	11/05/09	Acceptable
Dibromofluoromethane	106	82-116	11/05/09	Acceptable
Toluene-d8	111	88-117	11/05/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905440-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903705	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903705	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903705	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903705	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903705	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903705	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903705	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903705	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903705	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903705	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903705	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903705	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903705	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903705	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903705	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903705	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903705	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903705	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903705	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903705	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903705	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903705	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903705	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903705	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903705	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903705	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903705	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903705	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903705	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903705	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905440-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903705	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903705	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903705	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903705	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903705	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903705	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903705	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903705	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903705	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	118	75-120	11/06/09	Acceptable
Dibromofluoromethane	98	82-116	11/06/09	Acceptable
Toluene-d8	106	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903673-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/04/09	11/04/09	JWG0903673	
Vinyl Chloride	ND	U	1.0	0.25	1	11/04/09	11/04/09	JWG0903673	
Bromomethane	ND	U	1.0	0.14	1	11/04/09	11/04/09	JWG0903673	
Chloroethane	ND	U	5.0	0.19	1	11/04/09	11/04/09	JWG0903673	
Trichlorofluoromethane	ND	U	20	0.25	1	11/04/09	11/04/09	JWG0903673	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/04/09	11/04/09	JWG0903673	
Acetone	ND	U	50	2.4	1	11/04/09	11/04/09	JWG0903673	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/04/09	11/04/09	JWG0903673	
Carbon Disulfide	ND	U	10	0.84	1	11/04/09	11/04/09	JWG0903673	
Methylene Chloride	ND	U	5.0	0.72	1	11/04/09	11/04/09	JWG0903673	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/04/09	11/04/09	JWG0903673	
Acrylonitrile	ND	U	10	0.59	1	11/04/09	11/04/09	JWG0903673	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/04/09	11/04/09	JWG0903673	
Vinyl Acetate	ND	U	10	0.60	1	11/04/09	11/04/09	JWG0903673	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/04/09	11/04/09	JWG0903673	
2-Butanone (MEK)	ND	U	10	0.56	1	11/04/09	11/04/09	JWG0903673	
Bromochloromethane	ND	U	5.0	0.14	1	11/04/09	11/04/09	JWG0903673	
Chloroform	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/04/09	11/04/09	JWG0903673	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/04/09	11/04/09	JWG0903673	
Benzene	ND	U	1.0	0.52	1	11/04/09	11/04/09	JWG0903673	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/04/09	11/04/09	JWG0903673	
Dibromomethane	ND	U	5.0	0.12	1	11/04/09	11/04/09	JWG0903673	
Bromodichloromethane	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/04/09	11/04/09	JWG0903673	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/04/09	11/04/09	JWG0903673	
Toluene	ND	U	1.0	0.52	1	11/04/09	11/04/09	JWG0903673	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/04/09	11/04/09	JWG0903673	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/04/09	11/04/09	JWG0903673	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/04/09	11/04/09	JWG0903673	
2-Hexanone	ND	U	25	0.36	1	11/04/09	11/04/09	JWG0903673	
Dibromochloromethane	ND	U	1.0	0.11	1	11/04/09	11/04/09	JWG0903673	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903673-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/04/09	11/04/09	JWG0903673	
Chlorobenzene	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
Ethylbenzene	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
m,p-Xylenes	ND	U	2.0	0.22	1	11/04/09	11/04/09	JWG0903673	
o-Xylene	ND	U	1.0	0.10	1	11/04/09	11/04/09	JWG0903673	
Styrene	ND	U	1.0	0.051	1	11/04/09	11/04/09	JWG0903673	
Bromoform	ND	U	2.0	0.12	1	11/04/09	11/04/09	JWG0903673	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/04/09	11/04/09	JWG0903673	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/04/09	11/04/09	JWG0903673	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/04/09	11/04/09	JWG0903673	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/04/09	11/04/09	JWG0903673	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/04/09	11/04/09	JWG0903673	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/04/09	11/04/09	JWG0903673	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	88	71-122	11/04/09	Acceptable
4-Bromofluorobenzene	97	75-120	11/04/09	Acceptable
Dibromofluoromethane	105	82-116	11/04/09	Acceptable
Toluene-d8	110	88-117	11/04/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903705-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903705	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903705	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903705	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903705	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903705	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903705	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903705	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903705	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903705	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903705	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903705	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903705	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903705	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903705	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903705	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903705	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903705	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903705	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903705	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903705	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903705	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903705	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903705	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903705	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903705	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903705	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903705	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903705	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903705	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903705	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903705-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903705	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903705	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903705	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903705	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903705	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903705	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903705	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903705	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903705	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903705	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903705	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	114	75-120	11/06/09	Acceptable
Dibromofluoromethane	97	82-116	11/06/09	Acceptable
Toluene-d8	109	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-19A
Lab Code: J0905440-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	127	77-150	11/09/09	Acceptable

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905440
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/03/2009
Sample Matrix:	Water	**Date Received:**	11/04/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-19C	**Units:**	ug/L
Lab Code:	J0905440-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	131	77-150	11/09/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/03/2009
Date Received: 11/04/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-16A
Lab Code: J0905440-003

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	123	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905440
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/03/2009
Sample Matrix:	Water	**Date Received:**	11/04/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-16B	**Units:**	ug/L
Lab Code:	J0905440-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	128	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905440
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0903692-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	118	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Sample Name: MW-19A
Lab Code: J0905440-001

Service Request: J0905440
Date Collected: 11/ 3/09 1420
Date Received: 11/ 4/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.4	1	11/10/09	11/12/09 04:17
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 5/09	11/13/09 14:06
Arsenic, Dissolved	6020	**2.78**		µg/L	0.50	0.20	1	11/10/09	11/12/09 04:17
Arsenic, Total	6020	**2.61**		µg/L	0.50	0.20	1	11/ 5/09	11/13/09 14:06
Barium, Dissolved	6020	**24.4**		µg/L	2.0	0.5	1	11/10/09	11/12/09 04:17
Barium, Total	6020	**29.4**		µg/L	2.0	0.5	1	11/ 5/09	11/13/09 14:06
Beryllium, Dissolved	6020	**0.3**	I	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:17
Beryllium, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:06
Cadmium, Dissolved	6020	**0.18**	I	µg/L	0.50	0.12	1	11/10/09	11/12/09 04:17
Cadmium, Total	6020	**0.14**	I	µg/L	0.50	0.12	1	11/ 5/09	11/13/09 14:06
Chromium, Dissolved	6020	**9.0**		µg/L	2.0	0.8	1	11/10/09	11/12/09 04:17
Chromium, Total	6020	**14.1**		µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:06
Cobalt, Dissolved	6020	**0.5**	I	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:17
Cobalt, Total	6020	**0.6**	I	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:06
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/10/09	11/12/09 04:17
Copper, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:06
Iron, Dissolved	6010B	**3350**		µg/L	50	4	1	11/ 9/09	11/11/09 19:43
Iron, Total	6010B	**4330**		µg/L	50	4	1	11/ 5/09	11/6/09 13:01
Lead, Dissolved	6020	**1.5**		µg/L	1.0	0.2	1	11/10/09	11/12/09 04:17
Lead, Total	6020	**3.7**		µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:06
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:10
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:09
Nickel, Dissolved	6020	**1.8**	I	µg/L	2.0	0.3	1	11/10/09	11/12/09 04:17
Nickel, Total	6020	**3.0**		µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:06
Selenium, Dissolved	6020	**1.8**	I	µg/L	2.0	0.8	1	11/10/09	11/12/09 04:17
Selenium, Total	6020	**2.1**		µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:06
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	11/10/09	11/12/09 04:17
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 5/09	11/13/09 14:06
Sodium, Dissolved	6010B	**11.4**		mg/L	0.50	0.02	1	11/ 9/09	11/11/09 19:42
Sodium, Total	6010B	**10.9**		mg/L	0.50	0.02	1	11/ 5/09	11/6/09 13:00
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:17
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:06
Vanadium, Dissolved	6020	**12.9**		µg/L	5.0	1.2	1	11/10/09	11/12/09 04:17
Vanadium, Total	6020	**15.3**		µg/L	5.0	1.2	1	11/ 5/09	11/13/09 14:06
Zinc, Dissolved	6020	ND	U	µg/L	10	4	1	11/10/09	11/12/09 04:17
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 5/09	11/13/09 14:06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/ 3/09 1440
Date Received: 11/ 4/09

Sample Name: MW-19C
Lab Code: J0905440-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.4	1	11/10/09	11/12/09 04:22
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 5/09	11/13/09 14:11
Arsenic, Dissolved	6020	**0.32**	I	µg/L	0.50	0.20	1	11/10/09	11/12/09 04:22
Arsenic, Total	6020	**0.36**	I	µg/L	0.50	0.20	1	11/ 5/09	11/13/09 14:11
Barium, Dissolved	6020	**28.4**		µg/L	2.0	0.5	1	11/10/09	11/12/09 04:22
Barium, Total	6020	**52.6**		µg/L	2.0	0.5	1	11/ 5/09	11/13/09 14:11
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:22
Beryllium, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:11
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.12	1	11/10/09	11/12/09 04:22
Cadmium, Total	6020	**0.23**	I	µg/L	0.50	0.12	1	11/ 5/09	11/13/09 14:11
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/10/09	11/12/09 04:22
Chromium, Total	6020	**4.5**		µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:11
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:22
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:11
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/10/09	11/12/09 04:22
Copper, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:11
Iron, Dissolved	6010B	**616**		µg/L	50	4	1	11/ 9/09	11/11/09 19:47
Iron, Total	6010B	**1110**		µg/L	50	4	1	11/ 5/09	11/6/09 13:04
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:22
Lead, Total	6020	**0.7**	I	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:11
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:13
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:12
Nickel, Dissolved	6020	**0.6**	I	µg/L	2.0	0.3	1	11/10/09	11/12/09 04:22
Nickel, Total	6020	**1.3**	I	µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:11
Selenium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/10/09	11/12/09 04:22
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:11
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	11/10/09	11/12/09 04:22
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 5/09	11/13/09 14:11
Sodium, Dissolved	6010B	**9.43**		mg/L	0.50	0.02	1	11/ 9/09	11/11/09 19:46
Sodium, Total	6010B	**8.97**		mg/L	0.50	0.02	1	11/ 5/09	11/6/09 13:03
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:22
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:11
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	1.2	1	11/10/09	11/12/09 04:22
Vanadium, Total	6020	**4.0**	I	µg/L	5.0	1.2	1	11/ 5/09	11/13/09 14:11
Zinc, Dissolved	6020	ND	U	µg/L	10	4	1	11/10/09	11/12/09 04:22
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 5/09	11/13/09 14:11

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Sample Name: MW-16A
Lab Code: J0905440-003

Service Request: J0905440
Date Collected: 11/ 3/09 1600
Date Received: 11/ 4/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**0.5**	I	µg/L	2.0	0.4	1	11/ 5/09	11/13/09 14:16
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	11/ 5/09	11/13/09 14:16
Barium, Total	6020	**12.3**		µg/L	2.0	0.5	1	11/ 5/09	11/13/09 14:16
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:16
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 5/09	11/13/09 14:16
Chromium, Total	6020	**1.1**	I	µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:16
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:16
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:16
Iron, Total	6010B	**131**		µg/L	50	4	1	11/ 5/09	11/6/09 13:14
Lead, Total	6020	**0.5**	I	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:16
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:18
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:16
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:16
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 5/09	11/13/09 14:16
Sodium, Total	6010B	**1.49**		mg/L	0.50	0.02	1	11/ 5/09	11/6/09 13:14
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:16
Vanadium, Total	6020	**7.0**		µg/L	5.0	1.2	1	11/ 5/09	11/13/09 14:16
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 5/09	11/13/09 14:16

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Sample Name: MW-16B
Lab Code: J0905440-004

Service Request: J0905440
Date Collected: 11/ 3/09 1625
Date Received: 11/ 4/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.4	1	11/10/09	11/12/09 04:27
Antimony, Total	6020	**0.5**	I	µg/L	2.0	0.4	1	11/ 5/09	11/13/09 14:20
Arsenic, Dissolved	6020	**0.37**	I	µg/L	0.50	0.20	1	11/10/09	11/12/09 04:27
Arsenic, Total	6020	**0.40**	I	µg/L	0.50	0.20	1	11/ 5/09	11/13/09 14:20
Barium, Dissolved	6020	**17.0**		µg/L	2.0	0.5	1	11/10/09	11/12/09 04:27
Barium, Total	6020	**33.7**		µg/L	2.0	0.5	1	11/ 5/09	11/13/09 14:20
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:27
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:20
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.12	1	11/10/09	11/12/09 04:27
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 5/09	11/13/09 14:20
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/10/09	11/12/09 04:27
Chromium, Total	6020	**2.2**		µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:20
Cobalt, Dissolved	6020	**0.3**	I	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:27
Cobalt, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:20
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/10/09	11/12/09 04:27
Copper, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:20
Iron, Dissolved	6010B	**1180**		µg/L	50	4	1	11/ 9/09	11/11/09 20:11
Iron, Total	6010B	**1450**		µg/L	50	4	1	11/ 5/09	11/6/09 13:18
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:27
Lead, Total	6020	**2.4**		µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:20
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:20
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:19
Nickel, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/10/09	11/12/09 04:27
Nickel, Total	6020	**0.7**	I	µg/L	2.0	0.3	1	11/ 5/09	11/13/09 14:20
Selenium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/10/09	11/12/09 04:27
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 5/09	11/13/09 14:20
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	11/10/09	11/12/09 04:27
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 5/09	11/13/09 14:20
Sodium, Dissolved	6010B	**8.01**		mg/L	0.50	0.02	1	11/ 9/09	11/11/09 20:10
Sodium, Total	6010B	**7.90**		mg/L	0.50	0.02	1	11/ 5/09	11/6/09 13:17
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 04:27
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/13/09 14:20
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	1.2	1	11/10/09	11/12/09 04:27
Vanadium, Total	6020	**1.8**	I	µg/L	5.0	1.2	1	11/ 5/09	11/13/09 14:20
Zinc, Dissolved	6020	ND	U	µg/L	10	4	1	11/10/09	11/12/09 04:27
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 5/09	11/13/09 14:20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J0905440-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.4	1	11/10/09	11/12/09 03:19
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 5/09	11/9/09 20:10
Arsenic, Dissolved	6020	**0.20**	I	µg/L	0.50	0.20	1	11/10/09	11/12/09 03:19
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	11/ 5/09	11/9/09 20:10
Barium, Dissolved	6020	ND	U	µg/L	2.0	0.5	1	11/10/09	11/12/09 03:19
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	11/ 5/09	11/9/09 20:10
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 03:19
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/9/09 20:10
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.12	1	11/10/09	11/12/09 03:19
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 5/09	11/9/09 20:10
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/10/09	11/12/09 03:19
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 5/09	11/9/09 20:10
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 03:19
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/9/09 20:10
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/10/09	11/12/09 03:19
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 5/09	11/9/09 20:10
Iron, Dissolved	6010B	ND	U	µg/L	50	4	1	11/ 9/09	11/11/09 19:36
Iron, Total	6010B	ND	U	µg/L	50	4	1	11/ 5/09	11/6/09 11:57
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 03:19
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/9/09 20:10
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:03
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:03
Nickel, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/10/09	11/12/09 03:19
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 5/09	11/9/09 20:10
Selenium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/10/09	11/12/09 03:19
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 5/09	11/9/09 20:10
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	11/10/09	11/12/09 03:19
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 5/09	11/9/09 20:10
Sodium, Dissolved	6010B	**0.14**	I	mg/L	0.50	0.02	1	11/ 9/09	11/11/09 19:35
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	11/ 5/09	11/6/09 11:56
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/10/09	11/12/09 03:19
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 5/09	11/9/09 20:10
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	1.2	1	11/10/09	11/12/09 03:19
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/ 5/09	11/9/09 20:10
Zinc, Dissolved	6020	ND	U	µg/L	10	4	1	11/10/09	11/12/09 03:19
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 5/09	11/9/09 20:10

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905440
Date Collected : 11/03/09
Date Received : 11/04/09

Inorganic Parameters

Sample Name : MW-19A
Lab Code : J0905440-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:15	4.6	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/04/09 16:41	12	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/04/09 18:12	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	350	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905440
Date Collected : 11/03/09
Date Received : 11/04/09

Inorganic Parameters

Sample Name : MW-19C
Lab Code : J0905440-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:15	0.050	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/04/09 16:41	18	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/04/09 18:42	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	82	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905440
Date Collected : 11/03/09
Date Received : 11/04/09

Inorganic Parameters

Sample Name : MW-16A
Lab Code : J0905440-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:15	0.050	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/04/09 16:41	2.2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/04/09 18:57	0.17	i
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	47	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905440
Date Collected : 11/03/09
Date Received : 11/04/09

Inorganic Parameters

Sample Name : MW-16B
Lab Code : J0905440-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:15	0.20	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/04/09 16:41	14	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/04/09 19:57	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	59	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905440
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0905440-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:15	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/04/09 16:41	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/04/09 16:41	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/04/09 16:41	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	U	

Report By: Palimi

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-19A	J0905440-001	92	97	106	111
MW-19C	J0905440-002	89	97	106	111
MW-16A	J0905440-003	91	99	107	111
MW-16B	J0905440-004	90	97	106	111
Trip Blank	J0905440-005	95	118	98	106
Method Blank	JWG0903673-4	88	97	105	110
Method Blank	JWG0903705-4	90	114	97	109
Lab Control Sample	JWG0903673-3	89	96	104	108
Lab Control Sample	JWG0903705-3	92	108	99	111

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Extracted: 11/04/2009
Date Analyzed: 11/04/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903673

	Lab Control Sample JWG0903673-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	13.6	20.0	68	67-135
Vinyl Chloride	16.6	20.0	83	78-132
Bromomethane	18.8	20.0	94	79-130
Chloroethane	16.0	20.0	80	74-126
Trichlorofluoromethane	17.9	20.0	90	74-134
1,1-Dichloroethene	17.9	20.0	90	78-130
Acetone	81.4	100	81	67-133
Iodomethane (Methyl Iodide)	109	100	109	68-134
Carbon Disulfide	92.4	100	92	76-138
Methylene Chloride	20.0	20.0	100	72-124
trans-1,2-Dichloroethene	18.4	20.0	92	77-124
Acrylonitrile	86.1	100	86	77-127
1,1-Dichloroethane	18.2	20.0	91	80-128
Vinyl Acetate	74.8	100	75	61-148
cis-1,2-Dichloroethene	21.1	20.0	106	80-126
2-Butanone (MEK)	96.0	100	96	73-127
Bromochloromethane	23.6	20.0	118	79-129
Chloroform	20.1	20.0	100	83-124
1,1,1-Trichloroethane (TCA)	19.8	20.0	99	79-124
Carbon Tetrachloride	20.2	20.0	101	81-125
Benzene	19.5	20.0	98	79-119
1,2-Dichloroethane (EDC)	20.2	20.0	101	80-124
Trichloroethene (TCE)	22.6	20.0	113	76-124
1,2-Dichloropropane	18.4	20.0	92	79-123
Dibromomethane	20.7	20.0	104	83-123
Bromodichloromethane	20.3	20.0	102	81-123
cis-1,3-Dichloropropene	20.4	20.0	102	86-123
4-Methyl-2-pentanone (MIBK)	86.1	100	86	72-136
Toluene	20.5	20.0	103	86-117
trans-1,3-Dichloropropene	20.9	20.0	105	83-124
1,1,2-Trichloroethane	21.0	20.0	105	86-114
Tetrachloroethene (PCE)	23.3	20.0	116	80-121
2-Hexanone	87.2	100	87	71-138
Dibromochloromethane	22.3	20.0	111	82-121
1,2-Dibromoethane (EDB)	22.0	20.0	110	88-117
Chlorobenzene	21.5	20.0	108	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Extracted: 11/04/2009
Date Analyzed: 11/04/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903673

Analyte Name	Lab Control Sample JWG0903673-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	22.7	20.0	113	85-117
Ethylbenzene	20.4	20.0	102	90-118
m,p-Xylenes	42.2	40.0	106	86-121
o-Xylene	20.5	20.0	103	89-119
Styrene	21.3	20.0	107	89-122
Bromoform	22.9	20.0	115	68-129
1,1,2,2-Tetrachloroethane	20.7	20.0	103	83-120
1,2,3-Trichloropropane	22.1	20.0	110	83-123
1,4-Dichlorobenzene	20.0	20.0	100	83-113
trans-1,4-Dichloro-2-butene	12.2	20.0	61	53-143
1,2-Dichlorobenzene	19.8	20.0	99	84-115
1,2-Dibromo-3-chloropropane (DBCP	20.3	20.0	101	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Extracted: 11/06/2009
Date Analyzed: 11/06/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903705

Analyte Name	Lab Control Sample JWG0903705-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	21.1	20.0	106	67-135
Vinyl Chloride	19.6	20.0	98	78-132
Bromomethane	20.0	20.0	100	79-130
Chloroethane	20.4	20.0	102	74-126
Trichlorofluoromethane	19.2	20.0	96	74-134
1,1-Dichloroethene	20.4	20.0	102	78-130
Acetone	102	100	102	67-133
Iodomethane (Methyl Iodide)	104	100	104	68-134
Carbon Disulfide	91.9	100	92	76-138
Methylene Chloride	20.2	20.0	101	72-124
trans-1,2-Dichloroethene	20.7	20.0	103	77-124
Acrylonitrile	104	100	104	77-127
1,1-Dichloroethane	19.5	20.0	97	80-128
Vinyl Acetate	130	100	130	61-148
cis-1,2-Dichloroethene	20.9	20.0	104	80-126
2-Butanone (MEK)	112	100	112	73-127
Bromochloromethane	21.5	20.0	107	79-129
Chloroform	19.5	20.0	97	83-124
1,1,1-Trichloroethane (TCA)	19.1	20.0	96	79-124
Carbon Tetrachloride	20.2	20.0	101	81-125
Benzene	20.2	20.0	101	79-119
1,2-Dichloroethane (EDC)	20.5	20.0	102	80-124
Trichloroethene (TCE)	19.6	20.0	98	76-124
1,2-Dichloropropane	21.6	20.0	108	79-123
Dibromomethane	19.9	20.0	100	83-123
Bromodichloromethane	20.0	20.0	100	81-123
cis-1,3-Dichloropropene	21.6	20.0	108	86-123
4-Methyl-2-pentanone (MIBK)	108	100	108	72-136
Toluene	20.8	20.0	104	86-117
trans-1,3-Dichloropropene	22.7	20.0	113	83-124
1,1,2-Trichloroethane	20.9	20.0	104	86-114
Tetrachloroethene (PCE)	21.9	20.0	110	80-121
2-Hexanone	108	100	108	71-138
Dibromochloromethane	20.5	20.0	102	82-121
1,2-Dibromoethane (EDB)	21.8	20.0	109	88-117
Chlorobenzene	20.4	20.0	102	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Extracted: 11/06/2009
Date Analyzed: 11/06/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903705

Analyte Name	Lab Control Sample JWG0903705-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	21.1	20.0	105	85-117
Ethylbenzene	20.7	20.0	103	90-118
m,p-Xylenes	41.6	40.0	104	86-121
o-Xylene	20.3	20.0	102	89-119
Styrene	20.7	20.0	103	89-122
Bromoform	21.2	20.0	106	68-129
1,1,2,2-Tetrachloroethane	21.0	20.0	105	83-120
1,2,3-Trichloropropane	20.7	20.0	104	83-123
1,4-Dichlorobenzene	19.4	20.0	97	83-113
trans-1,4-Dichloro-2-butene	22.5	20.0	113	53-143
1,2-Dichlorobenzene	18.7	20.0	94	84-115
1,2-Dibromo-3-chloropropane (DBCP	20.6	20.0	103	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-19A	J0905440-001	127
MW-19C	J0905440-002	131
MW-16A	J0905440-003	123
MW-16B	J0905440-004	128
Method Blank	JWG0903692-4	118
Lab Control Sample	JWG0903692-3	121

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905440
Project:	JED SWDF/FQ1512A.02	**Date Extracted:**	11/06/2009
Sample Matrix:	Water	**Date Analyzed:**	11/09/2009

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG0903692

	Lab Control Sample JWG0903692-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.284	0.250	114	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.297	0.250	119	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/3/09
Date Received: 11/4/09
Date Analyzed: 11/11/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-19C
Lab Code: J0905440-002

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3005A

Analyte Name	Sample Result	Matrix Spike J0905440-MS Result	Amount	% Rec	Duplicate Matrix Spike J0905440-DMS Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Dissolved	616	2460	2000	92	2470	2000	93	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Collected: 11/3/09
Date Received: 11/4/09
Date Analyzed: 11/11/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-19C
Lab Code: J0905440-002

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3005A

Analyte Name	Sample Result	Matrix Spike J0905440-MS Result	Matrix Spike J0905440-MS Amount	Matrix Spike J0905440-MS % Rec	Duplicate Matrix Spike J0905440-DMS Result	Duplicate Matrix Spike J0905440-DMS Amount	Duplicate Matrix Spike J0905440-DMS % Rec	% Rec Limits	RPD	RPD Limit
Sodium, Dissolved	9.43	19.2	10.0	98	19.3	10.0	98	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Analyzed: 11/ 6/09 - 11/12/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905440-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Dissolved	6020	**48.9**	50.0	98	80 - 120
Antimony, Total	6020	**49.3**	50.0	99	80 - 120
Arsenic, Dissolved	6020	**50.0**	50.0	100	80 - 120
Arsenic, Total	6020	**49.9**	50.0	100	80 - 120
Barium, Dissolved	6020	**47.5**	50.0	95	80 - 120
Barium, Total	6020	**51.9**	50.0	104	80 - 120
Beryllium, Dissolved	6020	**50.6**	50.0	101	80 - 120
Beryllium, Total	6020	**50.3**	50.0	101	80 - 120
Cadmium, Dissolved	6020	**49.0**	50.0	98	80 - 120
Cadmium, Total	6020	**48.6**	50.0	97	80 - 120
Chromium, Dissolved	6020	**48.2**	50.0	96	80 - 120
Chromium, Total	6020	**53.0**	50.0	106	80 - 120
Cobalt, Dissolved	6020	**47.8**	50.0	96	80 - 120
Cobalt, Total	6020	**51.8**	50.0	104	80 - 120
Copper, Dissolved	6020	**49.1**	50.0	98	80 - 120
Copper, Total	6020	**51.9**	50.0	104	80 - 120
Iron, Dissolved	6010B	**1850**	2000	92	80 - 120
Iron, Total	6010B	**1870**	2000	93	80 - 120
Lead, Dissolved	6020	**48.9**	50.0	98	80 - 120
Lead, Total	6020	**52.2**	50.0	104	80 - 120
Mercury, Dissolved	7470A	**4.94**	5.00	99	80 - 120
Mercury, Total	7470A	**4.94**	5.00	99	80 - 120
Nickel, Dissolved	6020	**48.4**	50.0	97	80 - 120
Nickel, Total	6020	**52.1**	50.0	104	80 - 120
Selenium, Dissolved	6020	**48.6**	50.0	97	80 - 120
Selenium, Total	6020	**47.0**	50.0	94	80 - 120
Silver, Dissolved	6020	**53.3**	50.0	107	80 - 120
Silver, Total	6020	**52.3**	50.0	105	80 - 120
Thallium, Dissolved	6020	**49.2**	50.0	98	80 - 120
Thallium, Total	6020	**51.8**	50.0	104	80 - 120
Vanadium, Dissolved	6020	**49.5**	50.0	99	80 - 120
Vanadium, Total	6020	**53.3**	50.0	107	80 - 120
Zinc, Dissolved	6020	**101**	100	101	80 - 120
Zinc, Total	6020	**97.5**	100	97	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905440
Date Analyzed: 11/ 6/09 - 11/11/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905440-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Dissolved	6010B	**10.2**	10.0	102	80 - 120
Sodium, Total	6010B	**10.0**	10.0	100	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905440
Date Collected : 11/03/09
Date Received : 11/04/09
Date Extracted : NA
Date Analyzed : 11/04-09/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-19A
Lab Code : J0905440-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	12	12	12	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	350	370	360	6	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	GeoSyntec Consultants	**Service Request :**	J0905440
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	FQ1512A.02	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	11/04-10/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0905440-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	4.93	99	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.11	102	90-110	
Chloride	mg/L (ppm)	300.0	100	105	105	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.16	103	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	297	99	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosyntec Service Request # J0905440

Project: SED SWDF

Cooler received on 11/4/09 and opened on 11/4/09 by SL

COURIER: CAS (UPS) FEDEX DHL CLIENT Tracking # J208 151 245 6

1	Were custody seals on outside of cooler?	(Yes)	No	N/A
2	Were seals intact, signed and dated?	(Yes)	No	N/A
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 1.4			
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	Were all of the preserved bottles received with the appropriate preservative?	(Yes)	No	N/A

(HNO3 pH<2) (H2SO4 pH<2) ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2

Preservative additions noted below

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

SR # : J 0905440 Date: 11/4/09 Initials: SC

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

	Bottle Code																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Container	40mL G	40mL G	40mL G	40mL G	125mL P	125mL P	125mL P	125mL P	250mL P	250mL P	250mL P	250mL P	250mL P	250mL G	250mL G	500mL P	500mL P	500mL P	1L P	1L P	1L G	1L G	1L G	2oz G	4oz G	8oz G	16oz G	5g ENC	100mL P	Misc. Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-				-	-
-001	3	3					1	2	1																					
-002								2																						
-003	1	1						1																						
-004								2																						
-005		2																												
-006																														
-007																														
-008																														
-009																														
-010																														
-011																														
-012																														
-013																														
-014																														
-015																														
-016																														
-017																														
-018																														
-019																														
-020																														
-021																														
-022																														
-023																														
-024																														
-025																														
-026																														
-027																														
-028																														
-029																														
-030																														
-031																														
-032																														
-033																														
-034																														
-035																														
-036																														
-037																														
-038																														
-039																														
-040																														

Columbia Analytical Services™

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # J0905440

CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A.02
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 0 2 3 0 2

NUMBER OF CONTAINERS / 8260 / 8011 / Metals / NH_3 / Cl, NO_3, TDS / Dissolved Metals

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	Metals	NH_3	Cl, NO_3, TDS	Dissolved Metals	REMARKS/ ALTERNATE DESCRIPTION
MW-19A		11-3-09	1420	GW	10	3	3	1	1	1	1	
MW-19C		11-3-09	1440	GW	10	3	3	1	1	1	1	
MW-16A		11-3-09	1600	GW	9	3	3	1	1	1		
MW-16B		11-3-09	1625	GW	10	3	3	1	1	1	1	
Trip Blank		10-28-09	1100	W	2	2						

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID: 09307-JED-1

See QAPP ☐

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

X STANDARD

REQUESTED FAX DATE

_____

REQUESTED REPORT DATE

_____

REPORT REQUIREMENTS

____ I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
51					
Signature: Joe Terry	Signature: Shawn Lightsey	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Shawn Lightsey	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 11-3-09/1700	Date/Time: 11/4/09 0915	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

JSCOC-06/20/08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Organochlorine Pesticides by GC-ECD

Sample Name:	L-1	**Units:**	ug/L
Lab Code:	J0905605-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.022	0.0086	1	11/16/09	11/18/09	JWG0903856	
gamma-BHC (Lindane)	ND	U	0.022	0.0090	1	11/16/09	11/18/09	JWG0903856	
beta-BHC	ND	U	0.022	0.0093	1	11/16/09	11/18/09	JWG0903856	
delta-BHC	ND	U	0.022	0.012	1	11/16/09	11/18/09	JWG0903856	
Heptachlor	ND	U	0.022	0.011	1	11/16/09	11/18/09	JWG0903856	
Aldrin	ND	U	0.022	0.0074	1	11/16/09	11/18/09	JWG0903856	
Heptachlor Epoxide	ND	U	0.022	0.0086	1	11/16/09	11/18/09	JWG0903856	
gamma-Chlordane	ND	U	0.022	0.0082	1	11/16/09	11/18/09	JWG0903856	
alpha-Chlordane	ND	U	0.022	0.0072	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDE	ND	U	0.022	0.0092	1	11/16/09	11/18/09	JWG0903856	
Endosulfan I	ND	U	0.022	0.0097	1	11/16/09	11/18/09	JWG0903856	
Dieldrin	ND	U	0.022	0.0080	1	11/16/09	11/18/09	JWG0903856	
Endrin	ND	U	0.022	0.0098	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDD	ND	U	0.022	0.0086	1	11/16/09	11/18/09	JWG0903856	
Endosulfan II	ND	U	0.022	0.0070	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDT	ND	U	0.022	0.015	1	11/16/09	11/18/09	JWG0903856	
Endrin Aldehyde	ND	U	0.022	0.0093	1	11/16/09	11/18/09	JWG0903856	
Methoxychlor	ND	U	0.044	0.012	1	11/16/09	11/18/09	JWG0903856	
Endosulfan Sulfate	ND	U	0.022	0.010	1	11/16/09	11/18/09	JWG0903856	
Endrin Ketone	ND	U	0.022	0.0058	1	11/16/09	11/18/09	JWG0903856	
Toxaphene	ND	U	0.55	0.55	1	11/16/09	11/18/09	JWG0903856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	28	32-92	11/18/09	Outside Control Limits
Decachlorobiphenyl	8	13-104	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Organochlorine Pesticides by GC-ECD

Sample Name: L-2
Lab Code: J0905605-002

Extraction Method: EPA 3510C
Analysis Method: 8081A

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.022	0.0085	1	11/16/09	11/18/09	JWG0903856	
gamma-BHC (Lindane)	ND	U	0.022	0.0088	1	11/16/09	11/18/09	JWG0903856	
beta-BHC	ND	U	0.022	0.0091	1	11/16/09	11/18/09	JWG0903856	
delta-BHC	ND	U	0.022	0.012	1	11/16/09	11/18/09	JWG0903856	
Heptachlor	ND	U	0.022	0.011	1	11/16/09	11/18/09	JWG0903856	
Aldrin	ND	U	0.022	0.0073	1	11/16/09	11/18/09	JWG0903856	
Heptachlor Epoxide	ND	U	0.022	0.0085	1	11/16/09	11/18/09	JWG0903856	
gamma-Chlordane	ND	U	0.022	0.0080	1	11/16/09	11/18/09	JWG0903856	
alpha-Chlordane	ND	U	0.022	0.0071	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDE	ND	U	0.022	0.0090	1	11/16/09	11/18/09	JWG0903856	
Endosulfan I	ND	U	0.022	0.0095	1	11/16/09	11/18/09	JWG0903856	
Dieldrin	ND	U	0.022	0.0078	1	11/16/09	11/18/09	JWG0903856	
Endrin	ND	U	0.022	0.0096	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDD	ND	U	0.022	0.0085	1	11/16/09	11/18/09	JWG0903856	
Endosulfan II	ND	U	0.022	0.0069	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDT	ND	U	0.022	0.014	1	11/16/09	11/18/09	JWG0903856	
Endrin Aldehyde	ND	U	0.022	0.0091	1	11/16/09	11/18/09	JWG0903856	
Methoxychlor	ND	U	0.043	0.012	1	11/16/09	11/18/09	JWG0903856	
Endosulfan Sulfate	ND	U	0.022	0.0098	1	11/16/09	11/18/09	JWG0903856	
Endrin Ketone	ND	U	0.022	0.0057	1	11/16/09	11/18/09	JWG0903856	
Toxaphene	ND	U	0.54	0.54	1	11/16/09	11/18/09	JWG0903856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	25	32-92	11/18/09	Outside Control Limits
Decachlorobiphenyl	8	13-104	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Organochlorine Pesticides by GC-ECD

Sample Name:	L-3	**Units:**	ug/L
Lab Code:	J0905605-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.023	0.0090	1	11/16/09	11/18/09	JWG0903856	
gamma-BHC (Lindane)	ND	U	0.023	0.0094	1	11/16/09	11/18/09	JWG0903856	
beta-BHC	ND	U	0.023	0.0097	1	11/16/09	11/18/09	JWG0903856	
delta-BHC	ND	U	0.023	0.013	1	11/16/09	11/18/09	JWG0903856	
Heptachlor	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Aldrin	ND	U	0.023	0.0078	1	11/16/09	11/18/09	JWG0903856	
Heptachlor Epoxide	ND	U	0.023	0.0090	1	11/16/09	11/18/09	JWG0903856	
gamma-Chlordane	ND	U	0.023	0.0086	1	11/16/09	11/18/09	JWG0903856	
alpha-Chlordane	ND	U	0.023	0.0075	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDE	ND	U	0.023	0.0096	1	11/16/09	11/18/09	JWG0903856	
Endosulfan I	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Dieldrin	ND	U	0.023	0.0083	1	11/16/09	11/18/09	JWG0903856	
Endrin	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDD	ND	U	0.023	0.0090	1	11/16/09	11/18/09	JWG0903856	
Endosulfan II	ND	U	0.023	0.0073	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDT	ND	U	0.023	0.015	1	11/16/09	11/18/09	JWG0903856	
Endrin Aldehyde	ND	U	0.023	0.0097	1	11/16/09	11/18/09	JWG0903856	
Methoxychlor	ND	U	0.046	0.013	1	11/16/09	11/18/09	JWG0903856	
Endosulfan Sulfate	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Endrin Ketone	ND	U	0.023	0.0061	1	11/16/09	11/18/09	JWG0903856	
Toxaphene	ND	U	0.57	0.57	1	11/16/09	11/18/09	JWG0903856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	30	32-92	11/18/09	Outside Control Limits
Decachlorobiphenyl	15	13-104	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Organochlorine Pesticides by GC-ECD

Sample Name: L-4
Lab Code: J0905605-004

Extraction Method: EPA 3510C
Analysis Method: 8081A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
gamma-BHC (Lindane)	ND	U	0.023	0.0092	1	11/16/09	11/18/09	JWG0903856	
beta-BHC	ND	U	0.023	0.0095	1	11/16/09	11/18/09	JWG0903856	
delta-BHC	ND	U	0.023	0.013	1	11/16/09	11/18/09	JWG0903856	
Heptachlor	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Aldrin	ND	U	0.023	0.0076	1	11/16/09	11/18/09	JWG0903856	
Heptachlor Epoxide	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
gamma-Chlordane	ND	U	0.023	0.0084	1	11/16/09	11/18/09	JWG0903856	
alpha-Chlordane	ND	U	0.023	0.0074	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDE	ND	U	0.023	0.0094	1	11/16/09	11/18/09	JWG0903856	
Endosulfan I	ND	U	0.023	0.0099	1	11/16/09	11/18/09	JWG0903856	
Dieldrin	ND	U	0.023	0.0082	1	11/16/09	11/18/09	JWG0903856	
Endrin	ND	U	0.023	0.010	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDD	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
Endosulfan II	ND	U	0.023	0.0072	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDT	ND	U	0.023	0.015	1	11/16/09	11/18/09	JWG0903856	
Endrin Aldehyde	ND	U	0.023	0.0095	1	11/16/09	11/18/09	JWG0903856	
Methoxychlor	ND	U	0.045	0.013	1	11/16/09	11/18/09	JWG0903856	
Endosulfan Sulfate	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Endrin Ketone	ND	U	0.023	0.0059	1	11/16/09	11/18/09	JWG0903856	
Toxaphene	ND	U	0.56	0.56	1	11/16/09	11/18/09	JWG0903856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	36	32-92	11/18/09	Acceptable
Decachlorobiphenyl	7	13-104	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Organochlorine Pesticides by GC-ECD

Sample Name:	L-5	**Units:**	ug/L
Lab Code:	J0905605-005	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
gamma-BHC (Lindane)	ND	U	0.023	0.0092	1	11/16/09	11/18/09	JWG0903856	
beta-BHC	ND	U	0.023	0.0095	1	11/16/09	11/18/09	JWG0903856	
delta-BHC	ND	U	0.023	0.013	1	11/16/09	11/18/09	JWG0903856	
Heptachlor	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Aldrin	ND	U	0.023	0.0076	1	11/16/09	11/18/09	JWG0903856	
Heptachlor Epoxide	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
gamma-Chlordane	ND	U	0.023	0.0084	1	11/16/09	11/18/09	JWG0903856	
alpha-Chlordane	ND	U	0.023	0.0074	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDE	ND	U	0.023	0.0094	1	11/16/09	11/18/09	JWG0903856	
Endosulfan I	ND	U	0.023	0.0099	1	11/16/09	11/18/09	JWG0903856	
Dieldrin	ND	U	0.023	0.0082	1	11/16/09	11/18/09	JWG0903856	
Endrin	ND	U	0.023	0.010	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDD	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
Endosulfan II	ND	U	0.023	0.0072	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDT	ND	U	0.023	0.015	1	11/16/09	11/18/09	JWG0903856	
Endrin Aldehyde	ND	U	0.023	0.0095	1	11/16/09	11/18/09	JWG0903856	
Methoxychlor	ND	U	0.045	0.013	1	11/16/09	11/18/09	JWG0903856	
Endosulfan Sulfate	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Endrin Ketone	ND	U	0.023	0.0059	1	11/16/09	11/18/09	JWG0903856	
Toxaphene	ND	U	0.56	0.56	1	11/16/09	11/18/09	JWG0903856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	25	32-92	11/18/09	Outside Control Limits
Decachlorobiphenyl	10	13-104	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Organochlorine Pesticides by GC-ECD

Sample Name:	L-6	**Units:**	ug/L
Lab Code:	J0905605-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
gamma-BHC (Lindane)	ND	U	0.023	0.0092	1	11/16/09	11/18/09	JWG0903856	
beta-BHC	ND	U	0.023	0.0095	1	11/16/09	11/18/09	JWG0903856	
delta-BHC	ND	U	0.023	0.013	1	11/16/09	11/18/09	JWG0903856	
Heptachlor	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Aldrin	ND	U	0.023	0.0076	1	11/16/09	11/18/09	JWG0903856	
Heptachlor Epoxide	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
gamma-Chlordane	ND	U	0.023	0.0084	1	11/16/09	11/18/09	JWG0903856	
alpha-Chlordane	ND	U	0.023	0.0074	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDE	ND	U	0.023	0.0094	1	11/16/09	11/18/09	JWG0903856	
Endosulfan I	ND	U	0.023	0.0099	1	11/16/09	11/18/09	JWG0903856	
Dieldrin	ND	U	0.023	0.0082	1	11/16/09	11/18/09	JWG0903856	
Endrin	ND	U	0.023	0.010	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDD	ND	U	0.023	0.0088	1	11/16/09	11/18/09	JWG0903856	
Endosulfan II	ND	U	0.023	0.0072	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDT	ND	U	0.023	0.015	1	11/16/09	11/18/09	JWG0903856	
Endrin Aldehyde	ND	U	0.023	0.0095	1	11/16/09	11/18/09	JWG0903856	
Methoxychlor	ND	U	0.045	0.013	1	11/16/09	11/18/09	JWG0903856	
Endosulfan Sulfate	ND	U	0.023	0.011	1	11/16/09	11/18/09	JWG0903856	
Endrin Ketone	ND	U	0.023	0.0059	1	11/16/09	11/18/09	JWG0903856	
Toxaphene	ND	U	0.56	0.56	1	11/16/09	11/18/09	JWG0903856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	29	32-92	11/18/09	Outside Control Limits
Decachlorobiphenyl	9	13-104	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organochlorine Pesticides by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0903856-2	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.020	0.0079	1	11/16/09	11/18/09	JWG0903856	
gamma-BHC (Lindane)	ND	U	0.020	0.0082	1	11/16/09	11/18/09	JWG0903856	
beta-BHC	ND	U	0.020	0.0085	1	11/16/09	11/18/09	JWG0903856	
delta-BHC	ND	U	0.020	0.011	1	11/16/09	11/18/09	JWG0903856	
Heptachlor	ND	U	0.020	0.0096	1	11/16/09	11/18/09	JWG0903856	
Aldrin	ND	U	0.020	0.0068	1	11/16/09	11/18/09	JWG0903856	
Heptachlor Epoxide	ND	U	0.020	0.0079	1	11/16/09	11/18/09	JWG0903856	
gamma-Chlordane	ND	U	0.020	0.0075	1	11/16/09	11/18/09	JWG0903856	
alpha-Chlordane	ND	U	0.020	0.0066	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDE	ND	U	0.020	0.0084	1	11/16/09	11/18/09	JWG0903856	
Endosulfan I	ND	U	0.020	0.0089	1	11/16/09	11/18/09	JWG0903856	
Dieldrin	ND	U	0.020	0.0073	1	11/16/09	11/18/09	JWG0903856	
Endrin	ND	U	0.020	0.0090	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDD	ND	U	0.020	0.0079	1	11/16/09	11/18/09	JWG0903856	
Endosulfan II	ND	U	0.020	0.0064	1	11/16/09	11/18/09	JWG0903856	
4,4'-DDT	ND	U	0.020	0.013	1	11/16/09	11/18/09	JWG0903856	
Endrin Aldehyde	ND	U	0.020	0.0085	1	11/16/09	11/18/09	JWG0903856	
Methoxychlor	ND	U	0.040	0.011	1	11/16/09	11/18/09	JWG0903856	
Endosulfan Sulfate	ND	U	0.020	0.0092	1	11/16/09	11/18/09	JWG0903856	
Endrin Ketone	ND	U	0.020	0.0053	1	11/16/09	11/18/09	JWG0903856	
Toxaphene	ND	U	0.50	0.50	1	11/16/09	11/18/09	JWG0903856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	55	32-92	11/18/09	Acceptable
Decachlorobiphenyl	79	13-104	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name:	L-1	**Units:**	ug/L
Lab Code:	J0905605-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.55	0.15	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1221	ND	U	0.55	0.24	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1232	ND	U	0.55	0.25	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1242	ND	U	0.55	0.14	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1248	ND	U	0.55	0.29	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1254	ND	U	0.55	0.41	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1260	ND	U	0.55	0.19	1	11/16/09	11/18/09	JWG0903857	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	9	24-120	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name:	L-2	**Units:**	ug/L
Lab Code:	J0905605-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.54	0.14	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1221	ND	U	0.54	0.24	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1232	ND	U	0.54	0.25	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1242	ND	U	0.54	0.13	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1248	ND	U	0.54	0.28	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1254	ND	U	0.54	0.40	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1260	ND	U	0.54	0.19	1	11/16/09	11/18/09	JWG0903857	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	8	24-120	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name:	L-3	**Units:**	ug/L
Lab Code:	J0905605-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.57	0.15	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1221	ND	U	0.57	0.25	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1232	ND	U	0.57	0.27	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1242	ND	U	0.57	0.14	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1248	ND	U	0.57	0.30	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1254	ND	U	0.57	0.43	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1260	ND	U	0.57	0.20	1	11/16/09	11/18/09	JWG0903857	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	14	24-120	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name: L-4
Lab Code: J0905605-004

Extraction Method: EPA 3510C
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.56	0.15	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1221	ND	U	0.56	0.25	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1232	ND	U	0.56	0.26	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1242	ND	U	0.56	0.14	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1248	ND	U	0.56	0.29	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1254	ND	U	0.56	0.42	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1260	ND	U	0.56	0.19	1	11/16/09	11/18/09	JWG0903857	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	7	24-120	11/18/09	Outside Control Limits

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name: L-5
Lab Code: J0905605-005

Extraction Method: EPA 3510C
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.56	0.15	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1221	ND	U	0.56	0.25	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1232	ND	U	0.56	0.26	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1242	ND	U	0.56	0.14	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1248	ND	U	0.56	0.29	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1254	ND	U	0.56	0.42	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1260	ND	U	0.56	0.19	1	11/16/09	11/18/09	JWG0903857	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	10	24-120	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name:	L-6	**Units:**	ug/L
Lab Code:	J0905605-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.56	0.15	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1221	ND	U	0.56	0.25	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1232	ND	U	0.56	0.26	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1242	ND	U	0.56	0.14	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1248	ND	U	0.56	0.29	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1254	ND	U	0.56	0.42	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1260	ND	U	0.56	0.19	1	11/16/09	11/18/09	JWG0903857	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	9	24-120	11/18/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name: Method Blank
Lab Code: JWG0903857-2

Extraction Method: EPA 3510C
Analysis Method: 8082

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.50	0.13	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1221	ND	U	0.50	0.22	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1232	ND	U	0.50	0.23	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1242	ND	U	0.50	0.12	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1248	ND	U	0.50	0.26	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1254	ND	U	0.50	0.37	1	11/16/09	11/18/09	JWG0903857	
Aroclor 1260	ND	U	0.50	0.17	1	11/16/09	11/18/09	JWG0903857	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	79	24-120	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/09 1400
Sample Matrix:	Water	**Date Received:**	11/11/09
Sample Name:	L-1		
Lab Code:	J0905605-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**30**		µg/L	20	4	10	11/17/09	11/23/09 15:35
Arsenic, Total	6020	**56.4**		µg/L	5.0	2.0	10	11/17/09	11/23/09 15:35
Barium, Total	6020	**472**		µg/L	20	5	10	11/17/09	11/23/09 15:35
Beryllium, Total	6020	**4**	I	µg/L	10	2	10	11/17/09	11/23/09 15:35
Cadmium, Total	6020	**5.1**		µg/L	5.0	1.2	10	11/17/09	11/23/09 15:35
Chromium, Total	6020	**483**		µg/L	20	8	10	11/17/09	11/23/09 15:35
Cobalt, Total	6020	**38**		µg/L	10	2	10	11/17/09	11/23/09 15:35
Copper, Total	6020	**75**		µg/L	20	3	10	11/17/09	11/23/09 15:35
Iron, Total	6010B	**7340**		µg/L	250	20	5	11/12/09	11/12/09 20:48
Lead, Total	6020	**33**		µg/L	10	2	10	11/17/09	11/23/09 15:35
Mercury, Total	7470A	ND	U	µg/L	2.5	0.4	1	11/23/09	11/23/09 17:46
Nickel, Total	6020	**440**		µg/L	20	3	10	11/17/09	11/23/09 15:35
Selenium, Total	6020	**72**		µg/L	20	8	10	11/17/09	11/23/09 15:35
Silver, Total	6020	ND	U	µg/L	5.0	0.8	10	11/17/09	11/23/09 15:35
Sodium, Total	6010B	**2470**		mg/L	2.5	0.1	5	11/12/09	11/12/09 20:47
Thallium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 15:35
Vanadium, Total	6020	**596**		µg/L	50	12	10	11/17/09	11/23/09 15:35
Zinc, Total	6020	ND	U	µg/L	100	40	10	11/17/09	11/23/09 15:35

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/09 1355
Date Received: 11/11/09

Sample Name: L-2
Lab Code: J0905605-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**23**		µg/L	20	4	10	11/17/09	11/23/09 15:40
Arsenic, Total	6020	**71.2**		µg/L	5.0	2.0	10	11/17/09	11/23/09 15:40
Barium, Total	6020	**341**		µg/L	20	5	10	11/17/09	11/23/09 15:40
Beryllium, Total	6020	**6**	I	µg/L	10	2	10	11/17/09	11/23/09 15:40
Cadmium, Total	6020	ND	U	µg/L	5.0	1.2	10	11/17/09	11/23/09 15:40
Chromium, Total	6020	**340**		µg/L	20	8	10	11/17/09	11/23/09 15:40
Cobalt, Total	6020	**9**	I	µg/L	10	2	10	11/17/09	11/23/09 15:40
Copper, Total	6020	**13**	I	µg/L	20	3	10	11/17/09	11/23/09 15:40
Iron, Total	6010B	**4230**		µg/L	250	20	5	11/12/09	11/12/09 20:58
Lead, Total	6020	**10**	I	µg/L	10	2	10	11/17/09	11/23/09 15:40
Mercury, Total	7470A	ND	U	µg/L	2.5	0.4	1	11/23/09	11/23/09 17:48
Nickel, Total	6020	**97**		µg/L	20	3	10	11/17/09	11/23/09 15:40
Selenium, Total	6020	**28**		µg/L	20	8	10	11/17/09	11/23/09 15:40
Silver, Total	6020	ND	U	µg/L	5.0	0.8	10	11/17/09	11/23/09 15:40
Sodium, Total	6010B	**1220**		mg/L	2.5	0.1	5	11/12/09	11/12/09 20:57
Thallium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 15:40
Vanadium, Total	6020	**514**		µg/L	50	12	10	11/17/09	11/23/09 15:40
Zinc, Total	6020	ND	U	µg/L	100	40	10	11/17/09	11/23/09 15:40

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/09 1500
Date Received: 11/11/09

Sample Name: L-3
Lab Code: J0905605-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**11**	I	µg/L	20	4	10	11/17/09	11/23/09 15:45
Arsenic, Total	6020	**27.7**		µg/L	5.0	2.0	10	11/17/09	11/23/09 15:45
Barium, Total	6020	**180**		µg/L	20	5	10	11/17/09	11/23/09 15:45
Beryllium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 15:45
Cadmium, Total	6020	ND	U	µg/L	5.0	1.2	10	11/17/09	11/23/09 15:45
Chromium, Total	6020	**95**		µg/L	20	8	10	11/17/09	11/23/09 15:45
Cobalt, Total	6020	**16**		µg/L	10	2	10	11/17/09	11/23/09 15:45
Copper, Total	6020	**8**	I	µg/L	20	3	10	11/17/09	11/23/09 15:45
Iron, Total	6010B	**3220**		µg/L	250	20	5	11/12/09	11/12/09 21:01
Lead, Total	6020	**6**	I	µg/L	10	2	10	11/17/09	11/23/09 15:45
Mercury, Total	7470A	ND	U	µg/L	2.5	0.4	1	11/23/09	11/23/09 17:49
Nickel, Total	6020	**134**		µg/L	20	3	10	11/17/09	11/23/09 15:45
Selenium, Total	6020	**31**		µg/L	20	8	10	11/17/09	11/23/09 15:45
Silver, Total	6020	ND	U	µg/L	5.0	0.8	10	11/17/09	11/23/09 15:45
Sodium, Total	6010B	**1270**		mg/L	2.5	0.1	5	11/12/09	11/12/09 21:00
Thallium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 15:45
Vanadium, Total	6020	**231**		µg/L	50	12	10	11/17/09	11/23/09 15:45
Zinc, Total	6020	ND	U	µg/L	100	40	10	11/17/09	11/23/09 15:45

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/09 1240
Date Received: 11/11/09

Sample Name: L-4
Lab Code: J0905605-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Aluminum, Total	6020	**225000**		µg/L	500	80	10	11/17/09	11/23/09 15:50
Antimony, Total	6020	**54**		µg/L	20	4	10	11/17/09	11/23/09 15:50
Arsenic, Total	6020	**71.2**		µg/L	5.0	2.0	10	11/17/09	11/23/09 15:50
Barium, Total	6020	**332**		µg/L	20	5	10	11/17/09	11/23/09 15:50
Beryllium, Total	6020	**3**	I	µg/L	10	2	10	11/17/09	11/23/09 15:50
Cadmium, Total	6020	**4.7**	I	µg/L	5.0	1.2	10	11/17/09	11/23/09 15:50
Calcium, Total	6010B	**110**		mg/L	2.5	0.1	5	11/12/09	11/12/09 21:04
Chromium, Total	6020	**700**		µg/L	20	8	10	11/17/09	11/23/09 15:50
Cobalt, Total	6020	**40**		µg/L	10	2	10	11/17/09	11/23/09 15:50
Copper, Total	6020	**29**		µg/L	20	3	10	11/17/09	11/23/09 15:50
Iron, Total	6010B	**1920**		µg/L	250	20	5	11/12/09	11/12/09 21:04
Lead, Total	6020	**26**		µg/L	10	2	10	11/17/09	11/23/09 15:50
Magnesium, Total	6010B	**18.4**		mg/L	0.50	0.05	5	11/12/09	11/12/09 21:04
Manganese, Total	6020	**189**		µg/L	10	2	10	11/17/09	11/24/09 13:35
Mercury, Total	7470A	ND	U	µg/L	2.5	0.4	1	11/23/09	11/23/09 17:50
Nickel, Total	6020	**219**		µg/L	20	3	10	11/17/09	11/23/09 15:50
Potassium, Total	6010B	**629**		mg/L	10	1	5	11/12/09	11/12/09 21:04
Selenium, Total	6020	**153**		µg/L	20	8	10	11/17/09	11/23/09 15:50
Silver, Total	6020	ND	U	µg/L	5.0	0.8	10	11/17/09	11/23/09 15:50
Sodium, Total	6010B	**1420**		mg/L	2.5	0.1	5	11/12/09	11/12/09 21:04
Thallium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 15:50
Tin, Total	6010B	ND	U	mg/L	0.20	0.02	5	11/12/09	11/12/09 21:05
Vanadium, Total	6020	**847**		µg/L	50	12	10	11/17/09	11/23/09 15:50
Zinc, Total	6020	ND	U	µg/L	100	40	10	11/17/09	11/23/09 15:50

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/09 1120
Date Received: 11/11/09

Sample Name: L-5
Lab Code: J0905605-005

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**10**	I	µg/L	20	4	10	11/17/09	11/23/09 15:56
Arsenic, Total	6020	**21.9**		µg/L	5.0	2.0	10	11/17/09	11/23/09 15:56
Barium, Total	6020	**142**		µg/L	20	5	10	11/17/09	11/23/09 15:56
Beryllium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 15:56
Cadmium, Total	6020	ND	U	µg/L	5.0	1.2	10	11/17/09	11/23/09 15:56
Chromium, Total	6020	**106**		µg/L	20	8	10	11/17/09	11/23/09 15:56
Cobalt, Total	6020	**15**		µg/L	10	2	10	11/17/09	11/23/09 15:56
Copper, Total	6020	**10**	I	µg/L	20	3	10	11/17/09	11/23/09 15:56
Iron, Total	6010B	**3900**		µg/L	250	20	5	11/12/09	11/12/09 21:08
Lead, Total	6020	**7**	I	µg/L	10	2	10	11/17/09	11/23/09 15:56
Mercury, Total	7470A	ND	U	µg/L	2.5	0.4	1	11/23/09	11/23/09 17:52
Nickel, Total	6020	**124**		µg/L	20	3	10	11/17/09	11/23/09 15:56
Selenium, Total	6020	**33**		µg/L	20	8	10	11/17/09	11/23/09 15:56
Silver, Total	6020	ND	U	µg/L	5.0	0.8	10	11/17/09	11/23/09 15:56
Sodium, Total	6010B	**897**		mg/L	2.5	0.1	5	11/12/09	11/12/09 21:07
Thallium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 15:56
Vanadium, Total	6020	**225**		µg/L	50	12	10	11/17/09	11/23/09 15:56
Zinc, Total	6020	ND	U	µg/L	100	40	10	11/17/09	11/23/09 15:56

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/09 1530
Date Received: 11/11/09

Sample Name: L-6
Lab Code: J0905605-006

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	**12**	I	µg/L	20	4	10	11/17/09	11/23/09 16:01
Arsenic, Total	6020	**40.4**		µg/L	5.0	2.0	10	11/17/09	11/23/09 16:01
Barium, Total	6020	**203**		µg/L	20	5	10	11/17/09	11/23/09 16:01
Beryllium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 16:01
Cadmium, Total	6020	ND	U	µg/L	5.0	1.2	10	11/17/09	11/23/09 16:01
Chromium, Total	6020	**71**		µg/L	20	8	10	11/17/09	11/23/09 16:01
Cobalt, Total	6020	**12**		µg/L	10	2	10	11/17/09	11/23/09 16:01
Copper, Total	6020	**23**		µg/L	20	3	10	11/17/09	11/23/09 16:01
Iron, Total	6010B	**6010**		µg/L	250	20	5	11/12/09	11/12/09 21:11
Lead, Total	6020	**11**		µg/L	10	2	10	11/17/09	11/23/09 16:01
Mercury, Total	7470A	ND	U	µg/L	2.5	0.4	1	11/23/09	11/23/09 17:53
Nickel, Total	6020	**244**		µg/L	20	3	10	11/17/09	11/23/09 16:01
Selenium, Total	6020	**29**		µg/L	20	8	10	11/17/09	11/23/09 16:01
Silver, Total	6020	ND	U	µg/L	5.0	0.8	10	11/17/09	11/23/09 16:01
Sodium, Total	6010B	**892**		mg/L	2.5	0.1	5	11/12/09	11/12/09 21:11
Thallium, Total	6020	ND	U	µg/L	10	2	10	11/17/09	11/23/09 16:01
Vanadium, Total	6020	**242**		µg/L	50	12	10	11/17/09	11/23/09 16:01
Zinc, Total	6020	**380**		µg/L	100	40	10	11/17/09	11/23/09 16:01

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J0905605-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Aluminum, Total	6020	**13**	I	µg/L	50	8	1	11/17/09	11/19/09 04:57
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/17/09	11/19/09 04:57
Arsenic, Total	6020	**0.20**	I	µg/L	0.50	0.20	1	11/17/09	11/19/09 04:57
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	11/17/09	11/19/09 04:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/17/09	11/19/09 04:57
Calcium, Total	6010B	**0.05**	J	mg/L	0.50	0.02	1	11/12/09	11/12/09 19:31
Chromium, Total	6020	**1.7**	I	µg/L	2.0	0.8	1	11/17/09	11/23/09 19:30
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/17/09	11/19/09 04:57
Iron, Total	6010B	**6**	J	µg/L	50	4	1	11/12/09	11/12/09 19:31
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Magnesium, Total	6010B	ND	U	mg/L	0.10	0.01	1	11/12/09	11/12/09 19:31
Manganese, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:42
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/17/09	11/19/09 04:57
Potassium, Total	6010B	ND	U	mg/L	2.0	0.2	1	11/12/09	11/12/09 19:30
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/17/09	11/19/09 04:57
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/17/09	11/19/09 04:57
Sodium, Total	6010B	**0.03**	J	mg/L	0.50	0.02	1	11/12/09	11/12/09 19:30
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Tin, Total	6010B	ND	U	mg/L	0.040	0.003	1	11/12/09	11/12/09 19:31
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	11/17/09	11/19/09 04:57
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/17/09	11/19/09 04:57

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : L-1
Lab Code : J0905605-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	125	40	25	11/17/09 13:45	3900	
Ammonia as Nitrogen	mg/L (ppm)	350.1	10	2	200	11/18/09 09:49	1200	
Chloride	mg/L (ppm)	300.0	10	1.55	50	11/12/09 11:23	4700	
Cyanide, Total	ug/L (ppb)	335.4	10	4	1	11/20/09 10:32	19	
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	11/11/09 20:45	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	200	96	20	11/16/09 17:30	9700	
Sulfide	mg/L (ppm)	376.1	80	15	40	11/16/09 14:15	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : L-2
Lab Code : J0905605-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	50	16	10	11/17/09 13:45	1800	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5	1	100	11/18/09 10:20	680	
Chloride	mg/L (ppm)	300.0	10	1.55	50	11/12/09 11:23	2900	
Cyanide, Total	ug/L (ppb)	335.4	10	4	1	11/20/09 10:32	6.9	i
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	11/11/09 21:00	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	100	48	10	11/16/09 17:30	6800	
Sulfide	mg/L (ppm)	376.1	80	15	40	11/16/09 14:15	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : L-3
Lab Code : J0905605-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	40	12.8	8.3	11/17/09 13:45	1800	
Ammonia as Nitrogen	mg/L (ppm)	350.1	2.5	0.5	50	11/18/09 10:20	440	
Chloride	mg/L (ppm)	300.0	10	1.55	50	11/12/09 11:23	2400	
Cyanide, Total	ug/L (ppb)	335.4	10	4	1	11/20/09 10:32	5.7	i
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	11/11/09 22:00	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	50	24	5	11/16/09 17:30	5700	
Sulfide	mg/L (ppm)	376.1	40	7.6	20	11/16/09 14:15	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : L-4
Lab Code : J0905605-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	50	16	10	11/17/09 13:45	3300	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5	1	100	11/18/09 10:20	1200	
Ammonium as Nitrogen	mg/L (ppm)	FDEP	5	1	100	11/24/09 11:30	1200	
Carbonate as CaCO3	mg/L (ppm)	SM2320 B	5	1.6	1	11/17/09 13:45	U	
Chloride	mg/L (ppm)	300.0	10	1.55	50	11/12/09 11:23	2600	
Cyanide, Total	ug/L (ppb)	335.4	10	4	1	11/20/09 10:32	9.0	i
Fluoride	mg/L (ppm)	300.0	1	0.22	5	11/12/09 11:23	3.1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	11/11/09 22:15	U	
Nitrite as Nitrogen	mg/L (ppm)	300.0	2	0.42	10	11/11/09 22:15	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	100	48	10	11/17/09 10:00	11000	
Sulfate	mg/L (ppm)	300.0	2	0.165	5	11/12/09 11:23	2.2	
Sulfide	mg/L (ppm)	376.1	80	15	40	11/16/09 14:15	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : L-5
Lab Code : J0905605-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	50	16	10	11/17/09 13:45	1300	
Ammonia as Nitrogen	mg/L (ppm)	350.1	2.5	0.5	50	11/18/09 10:20	330	
Chloride	mg/L (ppm)	300.0	2	0.31	10	11/11/09 15:30	1600	
Cyanide, Total	ug/L (ppb)	335.4	10	4	1	11/20/09 10:32	9.7	i
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	11/11/09 22:30	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	50	24	5	11/17/09 10:00	4400	
Sulfide	mg/L (ppm)	376.1	40	7.6	20	11/16/09 14:15	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : L-6
Lab Code : J0905605-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	50	16	10	11/17/09 13:45	1900	
Ammonia as Nitrogen	mg/L (ppm)	350.1	2.5	0.5	50	11/18/09 10:20	400	
Chloride	mg/L (ppm)	300.0	2	0.31	10	11/11/09 15:30	1500	
Cyanide, Total	ug/L (ppb)	335.4	10	4	1	11/20/09 10:32	6.0	i
Nitrate as Nitrogen	mg/L (ppm)	300.0	2	0.38	10	11/11/09 22:45	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	50	24	5	11/17/09 10:00	5600	
Sulfide	mg/L (ppm)	376.1	8	1.5	4	11/16/09 14:15	5.3	i

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0905605-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	5	1.6	1	11/17/09 13:45	U	
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	5	1.6	1	11/17/09 13:45	U	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 10:20	U	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	U	
Ammonium as Nitrogen	mg/L (ppm)	FDEP	0.05	0.025	1	11/24/09 11:30	U	
Carbonate as CaCO3	mg/L (ppm)	SM2320 B	5	1.6	1	11/17/09 13:45	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/12/09 11:23	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/11/09 15:30	U	
Cyanide, Total	ug/L (ppb)	335.4	10	4	1	11/20/09 10:32	U	
Fluoride	mg/L (ppm)	300.0	0.2	0.044	1	11/12/09 11:23	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 15:30	U	
Nitrite as Nitrogen	mg/L (ppm)	300.0	0.2	0.042	1	11/11/09 15:30	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/17/09 10:00	U	
Sulfate	mg/L (ppm)	300.0	0.4	0.033	1	11/12/09 11:23	U	
Sulfide	mg/L (ppm)	376.1	2	0.38	1	11/16/09 14:15	U	

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
L-1	J0905605-001	107	101	98	101
L-2	J0905605-002	105	106	93	91
L-3	J0905605-003	104	97	96	97
L-4	J0905605-004	104	101	94	100
L-5	J0905605-005	112	102	102	95
L-6	J0905605-006	101	104	94	94
Trip Blank	J0905605-007	104	100	94	96
Method Blank	JWG0903818-4	110	105	99	97
Method Blank	JWG0903848-4	88	120	94	101
Lab Control Sample	JWG0903818-3	104	100	96	97
Lab Control Sample	JWG0903848-3	89	111	98	98

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/14/2009
Date Analyzed: 11/14/2009

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903818

Analyte Name	Lab Control Sample JWG0903818-3 Lab Control Spike Result	Expected	%Rec		%Rec Limits
Dichlorodifluoromethane	21.5	20.0	108		69-138
Chloromethane	19.5	20.0	98		67-135
Vinyl Chloride	20.3	20.0	102		78-132
Bromomethane	18.3	20.0	92		79-130
Chloroethane	21.4	20.0	107		74-126
Trichlorofluoromethane	21.2	20.0	106		74-134
Acrolein	84.9	100	85		61-137
1,1-Dichloroethene	20.4	20.0	102		78-130
Acetone	116	100	116		67-133
Iodomethane (Methyl Iodide)	114	100	114		68-134
Carbon Disulfide	94.9	100	95		76-138
Acetonitrile	108	100	108		67-132
Allyl Chloride	20.0	20.0	100		68-128
Methylene Chloride	19.6	20.0	98		72-124
Acrylonitrile	102	100	102		77-127
trans-1,2-Dichloroethene	20.3	20.0	102		77-124
1,1-Dichloroethane	20.2	20.0	101		80-128
Vinyl Acetate	115	100	115		61-148
Chloroprene	20.1	20.0	101		81-132
cis-1,2-Dichloroethene	19.4	20.0	97		80-126
2,2-Dichloropropane	20.2	20.0	101		72-136
1,1-Dichloropropene	19.8	20.0	99		85-124
2-Butanone (MEK)	105	100	105		73-127
Propionitrile	105	100	105		77-131
Bromochloromethane	21.4	20.0	107		79-129
Methacrylonitrile	14.5	20.0	73	*	77-129
Chloroform	20.6	20.0	103		83-124
1,1,1-Trichloroethane (TCA)	20.6	20.0	103		79-124
Carbon Tetrachloride	20.9	20.0	104		81-125
Benzene	19.4	20.0	97		79-119
1,2-Dichloroethane (EDC)	21.0	20.0	105		80-124
Isobutyl Alcohol	453	400	113		62-139
Trichloroethene (TCE)	19.2	20.0	96		76-124
1,2-Dichloropropane	20.2	20.0	101		79-123
Dibromomethane	21.2	20.0	106		83-123
Methyl Methacrylate	19.8	20.0	99		79-128

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/14/2009
Date Analyzed: 11/14/2009

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903818

Analyte Name	Lab Control Sample JWG0903818-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Bromodichloromethane	19.7	20.0	98	81-123
cis-1,3-Dichloropropene	18.6	20.0	93	86-123
4-Methyl-2-pentanone (MIBK)	101	100	101	72-136
Toluene	19.0	20.0	95	86-117
trans-1,3-Dichloropropene	19.0	20.0	95	83-124
Ethyl Methacrylate	19.3	20.0	97	78-127
1,1,2-Trichloroethane	18.6	20.0	93	86-114
Tetrachloroethene (PCE)	18.5	20.0	93	80-121
1,3-Dichloropropane	19.1	20.0	95	88-117
2-Hexanone	102	100	102	71-138
Dibromochloromethane	18.9	20.0	95	82-121
1,2-Dibromoethane (EDB)	19.8	20.0	99	88-117
Chlorobenzene	18.0	20.0	90	86-113
1,1,1,2-Tetrachloroethane	19.2	20.0	96	85-117
Ethylbenzene	19.2	20.0	96	90-118
m,p-Xylenes	37.8	40.0	94	86-121
o-Xylene	19.0	20.0	95	89-119
Styrene	18.2	20.0	91	89-122
Bromoform	17.6	20.0	88	68-129
1,1,2,2-Tetrachloroethane	18.1	20.0	91	83-120
1,2,3-Trichloropropane	18.5	20.0	92	83-123
trans-1,4-Dichloro-2-butene	19.5	20.0	97	53-143
1,3-Dichlorobenzene	18.1	20.0	90	83-112
1,4-Dichlorobenzene	18.2	20.0	91	83-113
1,2-Dichlorobenzene	18.3	20.0	92	84-115
1,2-Dibromo-3-chloropropane (DBCP	17.6	20.0	88	62-123
1,2,4-Trichlorobenzene	19.4	20.0	97	72-123
Hexachlorobutadiene	18.4	20.0	92	73-140
Naphthalene	20.6	20.0	103	59-135

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/16/2009
Date Analyzed: 11/16/2009

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903848

Analyte Name	Lab Control Sample JWG0903848-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	20.7	20.0	104	69-138
Chloromethane	23.3	20.0	116	67-135
Vinyl Chloride	21.1	20.0	105	78-132
Bromomethane	20.4	20.0	102	79-130
Chloroethane	21.2	20.0	106	74-126
Trichlorofluoromethane	25.0	20.0	125	74-134
Acrolein	81.4	100	81	61-137
1,1-Dichloroethene	21.7	20.0	108	78-130
Acetone	84.3	100	84	67-133
Iodomethane (Methyl Iodide)	108	100	108	68-134
Carbon Disulfide	100	100	100	76-138
Acetonitrile	81.4	100	81	67-132
Allyl Chloride	22.4	20.0	112	68-128
Methylene Chloride	20.5	20.0	103	72-124
Acrylonitrile	91.7	100	92	77-127
trans-1,2-Dichloroethene	21.5	20.0	108	77-124
1,1-Dichloroethane	22.0	20.0	110	80-128
Vinyl Acetate	124	100	124	61-148
Chloroprene	23.3	20.0	116	81-132
cis-1,2-Dichloroethene	20.9	20.0	105	80-126
2,2-Dichloropropane	26.9	20.0	135	72-136
1,1-Dichloropropene	21.8	20.0	109	85-124
2-Butanone (MEK)	86.5	100	87	73-127
Propionitrile	83.0	100	83	77-131
Bromochloromethane	20.5	20.0	103	79-129
Methacrylonitrile	20.9	20.0	105	77-129
Chloroform	22.2	20.0	111	83-124
1,1,1-Trichloroethane (TCA)	22.6	20.0	113	79-124
Carbon Tetrachloride	22.7	20.0	113	81-125
Benzene	21.0	20.0	105	79-119
1,2-Dichloroethane (EDC)	22.1	20.0	110	80-124
Isobutyl Alcohol	387	400	97	62-139
Trichloroethene (TCE)	21.6	20.0	108	76-124
1,2-Dichloropropane	21.5	20.0	108	79-123
Dibromomethane	18.8	20.0	94	83-123
Methyl Methacrylate	18.3	20.0	92	79-128

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/16/2009
Date Analyzed: 11/16/2009

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903848

Analyte Name	Lab Control Sample JWG0903848-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Bromodichloromethane	21.0	20.0	105	81-123
cis-1,3-Dichloropropene	20.4	20.0	102	86-123
4-Methyl-2-pentanone (MIBK)	88.8	100	89	72-136
Toluene	20.6	20.0	103	86-117
trans-1,3-Dichloropropene	19.2	20.0	96	83-124
Ethyl Methacrylate	18.0	20.0	90	78-127
1,1,2-Trichloroethane	19.0	20.0	95	86-114
Tetrachloroethene (PCE)	20.9	20.0	105	80-121
1,3-Dichloropropane	18.7	20.0	94	88-117
2-Hexanone	88.6	100	89	71-138
Dibromochloromethane	18.8	20.0	94	82-121
1,2-Dibromoethane (EDB)	19.8	20.0	99	88-117
Chlorobenzene	19.8	20.0	99	86-113
1,1,1,2-Tetrachloroethane	19.0	20.0	95	85-117
Ethylbenzene	20.4	20.0	102	90-118
m,p-Xylenes	39.7	40.0	99	86-121
o-Xylene	20.7	20.0	104	89-119
Styrene	19.6	20.0	98	89-122
Bromoform	16.2	20.0	81	68-129
1,1,2,2-Tetrachloroethane	18.5	20.0	92	83-120
1,2,3-Trichloropropane	16.5	20.0	83	83-123
trans-1,4-Dichloro-2-butene	11.1	20.0	55	53-143
1,3-Dichlorobenzene	21.8	20.0	109	83-112
1,4-Dichlorobenzene	21.1	20.0	106	83-113
1,2-Dichlorobenzene	20.7	20.0	104	84-115
1,2-Dibromo-3-chloropropane (DBCP	16.7	20.0	84	62-123
1,2,4-Trichlorobenzene	23.0	20.0	115	72-123
Hexachlorobutadiene	26.3	20.0	131	73-140
Naphthalene	18.4	20.0	92	59-135

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
L-1	J0905605-001	99
L-2	J0905605-002	119
L-3	J0905605-003	94
L-4	J0905605-004	108
L-5	J0905605-005	98
L-6	J0905605-006	118
Method Blank	JWG0903823-4	107
Lab Control Sample	JWG0903823-3	110

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/15/2009
Date Analyzed: 11/18/2009

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903823

Analyte Name	Lab Control Sample JWG0903823-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.284	0.250	114	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.265	0.250	106	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6	
L-1	J0905605-001	23	22	42	45	46	18	#
L-2	J0905605-002	31	25 D	64	43	48	26	
L-3	J0905605-003	30	19	56	50	58	28	
L-4	J0905605-004	26	25	52	38	47	26 D	
L-5	J0905605-005	26	18 D	47	41	45	24	
L-6	J0905605-006	31 D	29 D	62 D	52 D	50 D	34 D	
Method Blank	JWG0903787-4	34	19	56	63	86	86	
Lab Control Sample	JWG0903787-3	42	24	59	68	77	80	

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	10-77	Sur5 = 2,4,6-Tribromophenol	30-143
Sur2 = Phenol-d6	10-51	Sur6 = Terphenyl-d14	23-165
Sur3 = Nitrobenzene-d5	32-106		
Sur4 = 2-Fluorobiphenyl	30-102		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/12/2009
Date Analyzed: 11/17/2009

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903787

Analyte Name	Lab Control Sample JWG0903787-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
N-Nitrosodimethylamine	26.2	50.0	52	27-66
Phenol	19.0	50.0	38	12-54
Bis(2-chloroethyl) Ether	33.0	50.0	66	41-99
2-Chlorophenol	32.4	50.0	65	35-101
1,3-Dichlorobenzene	26.8	50.0	54	30-119
1,4-Dichlorobenzene	24.4	50.0	49	31-119
1,2-Dichlorobenzene	27.5	50.0	55	32-123
Bis(2-chloroisopropyl) Ether	34.7	50.0	69	31-94
Benzyl alcohol	32.0	50.0	64	32-110
2-Methylphenol	32.1	50.0	64	21-100
Hexachloroethane	23.7	50.0	47	19-113
N-Nitrosodi-n-propylamine	39.8	50.0	80	43-103
4-Methylphenol	59.0	75.0	79	15-95
Nitrobenzene	30.0	50.0	60	36-116
Isophorone	34.7	50.0	69	46-106
2-Nitrophenol	31.5	50.0	63	40-120
2,4-Dimethylphenol	30.5	50.0	61	38-110
bis(2-Chloroethoxy)methane	34.9	50.0	70	47-100
2,4-Dichlorophenol	36.0	50.0	72	36-117
1,2,4-Trichlorobenzene	26.7	50.0	53	50-120
Naphthalene	29.6	50.0	59	40-97
4-Chloroaniline	35.5	50.0	71	39-110
Hexachlorobutadiene	20.7	50.0	41	20-110
4-Chloro-3-methylphenol	32.2	50.0	64	36-117
2-Methylnaphthalene	30.1	50.0	60	46-110
Hexachlorocyclopentadiene	20.4	50.0	41	23-115
2,4,6-Trichlorophenol	33.6	50.0	67	41-115
2,4,5-Trichlorophenol	36.9	50.0	74	47-113
2-Chloronaphthalene	29.7	50.0	59	47-106
2-Nitroaniline	31.6	50.0	63	33-94
Acenaphthylene	33.1	50.0	66	45-99
Dimethyl Phthalate	37.5	50.0	75	32-119
2,6-Dinitrotoluene	34.0	50.0	68	55-121
Acenaphthene	32.3	50.0	65	42-106
3-Nitroaniline	34.6	50.0	69	25-91
2,4-Dinitrophenol	33.7	50.0	67	27-128

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/12/2009
Date Analyzed: 11/17/2009

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903787

Analyte Name	Lab Control Sample JWG0903787-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dibenzofuran	33.5	50.0	67	49-103
4-Nitrophenol	14.7	50.0	29	10-86
2,4-Dinitrotoluene	35.8	50.0	72	54-121
2,3,4,6-Tetrachlorophenol	43.8	50.0	88	50-150
Fluorene	31.8	50.0	64	54-97
4-Chlorophenyl Phenyl Ether	32.9	50.0	66	53-108
Diethyl Phthalate	39.0	50.0	78	56-108
4-Nitroaniline	31.0	50.0	62	44-102
2-Methyl-4,6-dinitrophenol	38.1	50.0	76	46-117
N-Nitrosodiphenylamine	17.2	50.0	34	30-122
4-Bromophenyl Phenyl Ether	40.4	50.0	81	63-123
Hexachlorobenzene	33.3	50.0	67	55-110
Pentachlorophenol	34.5	50.0	69	35-120
Phenanthrene	33.4	50.0	67	49-110
Anthracene	36.8	50.0	74	50-104
Di-n-butyl Phthalate	38.7	50.0	77	57-118
Fluoranthene	36.9	50.0	74	48-110
Pyrene	41.3	50.0	83	35-110
Butyl Benzyl Phthalate	38.2	50.0	76	40-117
Benz(a)anthracene	37.7	50.0	75	42-114
Chrysene	35.0	50.0	70	50-113
Bis(2-ethylhexyl) Phthalate	37.5	50.0	75	41-127
Di-n-octyl Phthalate	36.0	50.0	72	35-139
Benzo(b)fluoranthene	33.2	50.0	66	56-110
Benzo(k)fluoranthene	43.2	50.0	86	48-110
Benzo(a)pyrene	35.9	50.0	72	46-110
Indeno(1,2,3-cd)pyrene	36.9	50.0	74	54-115
Dibenz(a,h)anthracene	37.2	50.0	74	51-125
Benzo(g,h,i)perylene	36.5	50.0	73	53-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605

Surrogate Recovery Summary
Organochlorine Pesticides by GC-ECD

Extraction Method: EPA 3510C
Analysis Method: 8081A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1		Sur2	
L-1	J0905605-001	28	#	8	#
L-2	J0905605-002	25	#	8	#
L-3	J0905605-003	30	#	15	
L-4	J0905605-004	36		7	#
L-5	J0905605-005	25	#	10	#
L-6	J0905605-006	29	#	9	#
Method Blank	JWG0903856-2	55		79	
Lab Control Sample	JWG0903856-1	61		65	

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	32-92
Sur2 =	Decachlorobiphenyl	13-104

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Extracted: 11/16/2009
Date Analyzed: 11/18/2009

Lab Control Spike Summary
Organochlorine Pesticides by GC-ECD

Extraction Method: EPA 3510C
Analysis Method: 8081A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903856

Analyte Name	Lab Control Sample JWG0903856-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
alpha-BHC	0.300	0.400	75	56-104
gamma-BHC (Lindane)	0.291	0.400	73	57-101
beta-BHC	0.303	0.400	76	55-97
delta-BHC	0.317	0.400	79	31-105
Heptachlor	0.286	0.400	72	52-100
Aldrin	0.279	0.400	70	45-108
Heptachlor Epoxide	0.297	0.400	74	59-103
gamma-Chlordane	0.293	0.400	73	53-107
alpha-Chlordane	0.294	0.400	74	54-104
4,4'-DDE	0.293	0.400	73	58-114
Endosulfan I	0.295	0.400	74	61-104
Dieldrin	0.296	0.400	74	57-111
Endrin	0.285	0.400	71	57-117
4,4'-DDD	0.222	0.400	56	56-116
Endosulfan II	0.289	0.400	72	50-106
4,4'-DDT	0.319	0.400	80	41-115
Endrin Aldehyde	0.265	0.400	66	51-108
Methoxychlor	0.294	0.400	74	43-123
Endosulfan Sulfate	0.292	0.400	73	56-107
Endrin Ketone	0.288	0.400	72	46-101

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Extraction Method: EPA 3510C
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	
L-1	J0905605-001	9	#
L-2	J0905605-002	8	#
L-3	J0905605-003	14	#
L-4	J0905605-004	7	#
L-5	J0905605-005	10	#
L-6	J0905605-006	9	#
Method Blank	JWG0903857-2	79	
Lab Control Sample	JWG0903857-1	63	

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl	24-120

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Extracted:**	11/16/2009
Sample Matrix:	Water	**Date Analyzed:**	11/18/2009

Lab Control Spike Summary
Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	8082	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG0903857

	Lab Control Sample JWG0903857-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Aroclor 1016	3.40	4.00	85	39-116
Aroclor 1260	3.61	4.00	90	41-118

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Analyzed: 11/12/09 - 11/23/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905605-LCS Result	Expected	% Rec	% Rec Limits
Aluminum, Total	6020	**245**	250	98	80 - 120
Antimony, Total	6020	**47.9**	50.0	96	80 - 120
Arsenic, Total	6020	**49.3**	50.0	99	80 - 120
Barium, Total	6020	**50.2**	50.0	100	80 - 120
Beryllium, Total	6020	**44.1**	50.0	88	80 - 120
Cadmium, Total	6020	**47.3**	50.0	95	80 - 120
Chromium, Total	6020	**52.2**	50.0	104	80 - 120
Cobalt, Total	6020	**53.2**	50.0	106	80 - 120
Copper, Total	6020	**52.7**	50.0	105	80 - 120
Iron, Total	6010B	**1960**	2000	98	80 - 120
Lead, Total	6020	**50.8**	50.0	102	80 - 120
Manganese, Total	6020	**53.0**	50.0	106	80 - 120
Mercury, Total	7470A	**5.23**	5.00	105	80 - 120
Nickel, Total	6020	**53.0**	50.0	106	80 - 120
Selenium, Total	6020	**45.6**	50.0	91	80 - 120
Silver, Total	6020	**51.2**	50.0	102	80 - 120
Thallium, Total	6020	**50.4**	50.0	101	80 - 120
Vanadium, Total	6020	**51.0**	50.0	102	80 - 120
Zinc, Total	6020	**94.3**	100	94	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Analyzed: 11/12/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905605-LCS Result	Expected	% Rec	% Rec Limits
Calcium, Total	6010B	**19.9**	20.0	100	80 - 120
Magnesium, Total	6010B	**9.83**	10.0	98	80 - 120
Potassium, Total	6010B	**49.9**	50.0	100	80 - 120
Sodium, Total	6010B	**10.3**	10.0	103	80 - 120
Tin, Total	6010B	**5.07**	5.00	101	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09
Date Extracted : NA
Date Analyzed : 11/18/09

Duplicate Summary
Inorganic Parameters

Sample Name : L-2
Lab Code : J0905605-002DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5	680	690	685	1	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09
Date Extracted : NA
Date Analyzed : 11/18/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : L-2
Lab Code : J0905605-002MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5	100	680	787	107	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : 11/10/09
Date Received : 11/11/09
Date Extracted : NA
Date Analyzed : 11/17/09

Duplicate Summary
Inorganic Parameters

Sample Name : L-4
Lab Code : J0905605-004DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	100	11000	11000	11000	<1	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905605
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 11/11-20/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0905605-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Alkalinity as CaCO3, Total	mg/L (ppm)	SM2320 B	250	252	101	85-115	
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	1.03	103	90-110	
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	1.02	102	90-110	
Chloride	mg/L (ppm)	300.0	100	101	101	90-110	
Chloride	mg/L (ppm)	300.0	100	101	101	90-110	
Cyanide, Total	ug/L (ppb)	335.4	100	109	109	90-110	
Fluoride	mg/L (ppm)	300.0	5.0	5.23	105	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.01	100	90-110	
Nitrite as Nitrogen	mg/L (ppm)	300.0	5.0	5.13	103	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	288	96	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	291	97	85-115	
Sulfate	mg/L (ppm)	300.0	5.00	5.09	102	90-110	
Sulfide	mg/L (ppm)	376.1	11.1	10.9	98	85-115	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	GeoSyntec Consultants	**Service Request :**	J0905605
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	FQ1512A.02	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	11/16/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample Duplicate
Lab Code : J0905605-LCSD
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfide	mg/L (ppm)	376.1	11.1	11.1	100	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosyntec Service Request # 50905605

Project: JED SWDF

Cooler received on 11/11/09 and opened on 11/11/09 by SC

COURIER: (CAS) UPS FEDEX DHL CLIENT Tracking #

1	Were custody seals on outside of cooler?	Yes	(No)	N/A
2	Were seals intact, signed and dated?	Yes	No	(N/A)
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 4.0 3.4 2.8 3.9 5.4 5.6			
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	Were all of the preserved bottles received with the appropriate preservative?	Yes	(No)	N/A

(HNO3 pH<2) H2SO4 pH<2 (ZnAc2/NaOH pH>9) NaOH pH>12 (HCl pH<2)

Preservative additions noted below

SC 11/11/09

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials
L-1	HNO3	SM01-GB	1.0	SC 11/11/09 1695
L-2	↓		1.0	↓
L-3			1.0	
L-4			2.0	
L-5			1.0	
L-6			1.0	
L-1→L-6	NaOH	SM01-4C	1 scoop	
L-4	ZnAc2	SM01-6C	1 gram	↓

Additional comments and/or explanation of all discrepancies noted above:

L-4 VOA vials contained headspace

Client approval to run samples if discrepancies noted: Date: 20

SR #: J 0905605 Date: 11/11/09 Initials: SL

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

	Bottle Code																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	40mL	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100mL	Misc.
Container	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-001	3	3					1	1				1	1								6									
-002																														
-003																														
-004											1										7									
-005								1													6									
-006								1													6									
-007																														
-008																														
-009																														
-010																														
-011																														
-012																														
-013																														
-014																														
-015																														
-016																														
-017																														
-018																														
-019																														
-020																														
-021																														
-022																														
-023																														
-024																														
-025																														
-026																														
-027																														
-028																														
-029																														
-030																														
-031																														
-032																														
-033																														
-034																														
-035																														
-036																														
-037																														
-038																														
-039																														
040																														

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services
www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # J0905605
CAS Contact

Project Name: JED SWDF	Project Number: FQ1512.A.02
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec	
14055 Riveredge Dr. Ste 300	
Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry, Tom Wissler	Sampler's Printed Name: Joe Terry, Tom Wissler

ANALYSIS REQUESTED (Include Method Number and C

PRESERVATIVE: 0 0 2 3 4/5 4 0 0 0 0

NUMBER OF CONTAINERS / ANALYSIS REQUESTED

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	8011	Metals	NH3	Sulfide	Cyanide	Cl, NO3, Alk, TDS	8081	8082	8270	8151	Soil cation/anions	
L-1		11-10-09	1400	Leachate	17	X	X	X	X	X	X	X	X	X	X	X	
L-2			1355		17												
L-3			1500		17												
L-4			1240		18											X	
L-5			1120		17												
L-6			1530		17												
Trip Blank		10-28-09	1100	DI H_2O	3	3											

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS

vials for 8260 are unpreserved

Cooler ID: 09315-JED-~~2~~ 1 JT 11-11-09
09315-JED-~~3~~ 2
09315-JED-~~4~~ 3
09315-JED-~~5~~ 4
09315-JED-~~6~~ 5

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Tom Wissler	Printed Name: Robert Nicholas	Printed Name: Robert Nicholas	Printed Name: Simmons/Straw	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS	Firm: CAS	Firm: CAS	Firm	Firm
Date/Time: 11-11-09/	Date/Time: 11/11/09 12:30	Date/Time: 11/11/09 2140	Date/Time: 11/11/09 1440	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services
9143 Philips Highway, Suite 200
Jacksonville, FL 32256
Tel 904-739-2277
Fax 904-739-2011

Appendix A

Subcontracted Analytical Results

Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

www.encolabs.com

Thursday, November 19, 2009

Columbia Analytical Svcs. (CO009)

Attn: Craig Myers

9143 Philips Highway, Suite 200

Jacksonville, FL 32256

RE: Laboratory Results for
Project Number: J0905605, Project Name/Desc: J0905605
ENCO Workorder: A905639

Dear Craig Myers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, November 13, 2009.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

David M. Camacho

David Camacho For Ronald Wambles

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 12.

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	J0905605-001 (L-1)	Lab ID: A905639-01	Sampled: 11/10/09 14:00	Received: 11/13/09 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8151A	11/17/09	12/23/09	11/13/09 19:42	11/17/2009 20:19

Client ID:	J0905605-002 (L-2)	Lab ID: A905639-02	Sampled: 11/10/09 13:55	Received: 11/13/09 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8151A	11/17/09	12/23/09	11/13/09 19:42	11/17/2009 20:43

Client ID:	J0905605-003 (L-3)	Lab ID: A905639-03	Sampled: 11/10/09 15:00	Received: 11/13/09 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8151A	11/17/09	12/23/09	11/13/09 19:42	11/17/2009 21:07

Client ID:	J0905605-004 (L-4)	Lab ID: A905639-04	Sampled: 11/10/09 12:40	Received: 11/13/09 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8151A	11/17/09	12/23/09	11/13/09 19:42	11/17/2009 21:31

Client ID:	J0905605-005 (L-5)	Lab ID: A905639-05	Sampled: 11/10/09 11:20	Received: 11/13/09 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8151A	11/17/09	12/23/09	11/13/09 19:42	11/17/2009 21:55

Client ID:	J0905605-006 (L-6)	Lab ID: A905639-06	Sampled: 11/10/09 15:30	Received: 11/13/09 08:00
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8151A	11/17/09	12/23/09	11/13/09 19:42	11/17/2009 22:19

SAMPLE DETECTION SUMMARY

No positive results detected.

ANALYTICAL RESULTS

Description: J0905605-001 (L-1)
Matrix: Water
Project: J0905605

Lab Sample ID: A905639-01
Sampled: 11/10/09 14:00
Sampled By:

Received: 11/13/09 08:00
Work Order: A905639

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9K13029	EPA 8151A	11/17/09 20:19	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9K13029	EPA 8151A	11/17/09 20:19	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9K13029	EPA 8151A	11/17/09 20:19	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9K13029	EPA 8151A	11/17/09 20:19	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9K13029	EPA 8151A	11/17/09 20:19	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.3*	*1*	*2.00*	*115 %*	*68-139*	*9K13029*	*EPA 8151A*	*11/17/09 20:19*	*JJB*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: J0905605-002 (L-2)
Matrix: Water
Project: J0905605

Lab Sample ID: A905639-02
Sampled: 11/10/09 13:55
Sampled By:

Received: 11/13/09 08:00
Work Order: A905639

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9K13029	EPA 8151A	11/17/09 20:43	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9K13029	EPA 8151A	11/17/09 20:43	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9K13029	EPA 8151A	11/17/09 20:43	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9K13029	EPA 8151A	11/17/09 20:43	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9K13029	EPA 8151A	11/17/09 20:43	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*81 %*	*68-139*	*9K13029*	*EPA 8151A*	*11/17/09 20:43*	*JJB*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: J0905605-003 (L-3)
Matrix: Water
Project: J0905605

Lab Sample ID: A905639-03
Sampled: 11/10/09 15:00
Sampled By:

Received: 11/13/09 08:00
Work Order: A905639

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9K13029	EPA 8151A	11/17/09 21:07	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9K13029	EPA 8151A	11/17/09 21:07	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9K13029	EPA 8151A	11/17/09 21:07	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9K13029	EPA 8151A	11/17/09 21:07	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9K13029	EPA 8151A	11/17/09 21:07	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*3.0*	*1*	*2.00*	*152 %*	*68-139*	*9K13029*	*EPA 8151A*	*11/17/09 21:07*	*JJB*	*QS-06*

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: J0905605-004 (L-4) | **Lab Sample ID:** A905639-04 | **Received:** 11/13/09 08:00
Matrix: Water | **Sampled:** 11/10/09 12:40 | **Work Order:** A905639
Project: J0905605 | **Sampled By:**

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9K13029	EPA 8151A	11/17/09 21:31	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9K13029	EPA 8151A	11/17/09 21:31	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9K13029	EPA 8151A	11/17/09 21:31	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9K13029	EPA 8151A	11/17/09 21:31	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9K13029	EPA 8151A	11/17/09 21:31	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*0.0*	*1*	*2.00*	*%*	*68-139*	*9K13029*	*EPA 8151A*	*11/17/09 21:31*	*JJB*	*QS-05*

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: J0905605-005 (L-5) | **Lab Sample ID:** A905639-05 | **Received:** 11/13/09 08:00
Matrix: Water | **Sampled:** 11/10/09 11:20 | **Work Order:** A905639
Project: J0905605 | **Sampled By:**

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9K13029	EPA 8151A	11/17/09 21:55	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9K13029	EPA 8151A	11/17/09 21:55	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9K13029	EPA 8151A	11/17/09 21:55	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9K13029	EPA 8151A	11/17/09 21:55	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9K13029	EPA 8151A	11/17/09 21:55	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.4*	*1*	*2.00*	*118 %*	*68-139*	*9K13029*	*EPA 8151A*	*11/17/09 21:55*	*JJB*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: J0905605-006 (L-6)
Matrix: Water
Project: J0905605

Lab Sample ID: A905639-06
Sampled: 11/10/09 15:30
Sampled By:

Received: 11/13/09 08:00
Work Order: A905639

Chlorinated Herbicides by GC

^ - *ENCO Orlando certified analyte [NELAC E83182]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.053	U	ug/L	1	0.053	0.50	9K13029	EPA 8151A	11/17/09 22:19	JJB	
2,4,5-TP (Silvex) [93-72-1] ^	0.056	U	ug/L	1	0.056	0.50	9K13029	EPA 8151A	11/17/09 22:19	JJB	
2,4-D [94-75-7] ^	0.091	U	ug/L	1	0.091	0.50	9K13029	EPA 8151A	11/17/09 22:19	JJB	
Dinoseb [88-85-7] ^	0.28	U	ug/L	1	0.28	0.50	9K13029	EPA 8151A	11/17/09 22:19	JJB	
Pentachlorophenol [87-86-5] ^	0.043	U	ug/L	1	0.043	0.50	9K13029	EPA 8151A	11/17/09 22:19	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*110 %*	*68-139*	*9K13029*	*EPA 8151A*	*11/17/09 22:19*	*JJB*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 9K13029 - EPA 3510C

Blank (9K13029-BLK1) Prepared: 11/13/2009 19:42 Analyzed: 11/17/2009 14:19

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.053	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.056	U	0.50	ug/L							
2,4-D	0.091	U	0.50	ug/L							
Dinoseb	0.28	U	0.50	ug/L							
Pentachlorophenol	0.043	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*109*	*68-139*			

LCS (9K13029-BS1) Prepared: 11/13/2009 19:42 Analyzed: 11/17/2009 15:31

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.7		0.50	ug/L	2.00		134	38-193			
2,4-D	2.8		0.50	ug/L	2.00		142	62-144			
Surrogate: 2,4-DCAA	*2.4*			*ug/L*	*2.00*		*122*	*68-139*			

Matrix Spike (9K13029-MS1) Prepared: 11/13/2009 19:42 Analyzed: 11/17/2009 15:55

Source: A905520-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.6		0.50	ug/L	2.00	0.056 U	129	38-193			
2,4-D	2.6		0.50	ug/L	2.00	0.091 U	128	62-144			
Surrogate: 2,4-DCAA	*2.3*			*ug/L*	*2.00*		*115*	*68-139*			

Matrix Spike Dup (9K13029-MSD1) Prepared: 11/13/2009 19:42 Analyzed: 11/17/2009 16:19

Source: A905520-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.4		0.50	ug/L	2.00	0.056 U	120	38-193	7	20	
2,4-D	2.4		0.50	ug/L	2.00	0.091 U	118	62-144	8	33	
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*111*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value. The associated sample note or project narrative indicate the causative reason.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
QS-05	Surrogate recovery biased low and outside control limits due to suspected matrix effects, as evidenced by sample behavior during sample preparation (emulsion formation, excessive foaming).
QS-06	Surrogate recovery exceeded acceptance criteria due to the presence of a coeluting compound. This is a confirmed matrix effect.

ENCO
www.encolabs.com

Columbia Analytical Services, Inc. Chain of Custody

9143 Philips Highway • Jacksonville, FL 32256 • 904-739-2277 • FAX 904-739-2011

CAS Contact: Craig Myers

Project Number: J0905605
Project Manager: Craig Myers

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	HERB 8151A
J0905605-001	L-1	2	Water	11/10/09	1400	ENCO	X
J0905605-002	L-2		Water	11/10/09	1355	ENCO	
J0905605-003	L-3		Water	11/10/09	1500	ENCO	
J0905605-004	L-4		Water	11/10/09	1240	ENCO	
J0905605-005	L-5		Water	11/10/09	1120	ENCO	
J0905605-006	L-6		Water	11/10/09	1530	ENCO	

Test Comments
HERB - 8151A — J0905605-001,2,3,4,5,6

Report Appendix II List
Send to ENCO fax

C-95 2°C L-9 G-10 3°C

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
PLEASE SEND RESULTS TO MANDY SULLIVAN	___ RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ✓ STANDARD Requested FAX Date: ___ Requested Report Date: 11/22/09	___ I. Results Only ✓ II. Results + QC Summaries ___ III. Results + QC and Calibration Summaries ___ IV. Data Validation Report with Raw Data PQL/MDL/J: Y EDD: Y	A905659 PO#: J0905605 Bill to:

Relinquished By: [signature] 11/12/09 — Received By: [signature] 11/12/09 9:30 — Airbill Number:

Columbia Analytical Services
9143 Philips Hwy, Suite 200 | Jacksonville, FL 32256 | 904.739.2277 | 904.739.2011 fax | www.caslab.com

November 30, 2009

Service Request No: J0905605

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A.02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on November 11, 2009. For your reference, these analyses have been assigned our service request number **J0905605**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

© 100% Recycled Paper

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0905605
Project:	JED SWDF	**Date Received:**	11/11/09
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Six water samples and one trip blank were received for analysis at Columbia Analytical Services on 11/11/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Lab Control Sample Exceptions

The spike recovery of Methacrylonitrile for Laboratory Control Sample (LCS) JWG0903818-3 was outside the lower control criterion. The analyte in question was not detected in the associated field samples. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Elevated Method Reporting Limits

Samples L-1, L-2, L-3, L-4, L-5, and L-6 required dilution due to the presence of elevated levels of target analytes. The reporting limits are adjusted to reflect the dilution.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Approved by _____ **Date** 11/30/09

Batch QC Notes and Discussion

Quality control samples for Matrix Spike and Duplicate Matrix Spike were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Organochlorine Pesticides by GC-ECD

The samples were analyzed for Organochlorine Pesticides using EPA Method 8081. The following observations were made regarding this delivery group.

Surrogate Exceptions

The control criteria were exceeded for the following surrogates in samples L-1, L-2, L-3, L-4, L-5, and L-6 due to matrix interferences: Tetrachloro-m-xylene and Decachlorobiphenyl. The samples formed a large emulsion during the extraction procedure that may have adversely affected surrogate recovery. No further corrective action was appropriate.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

PCB Aroclors by GC-ECD

The samples were analyzed for PCB Aroclors using EPA Method 8082. The following observations were made regarding this delivery group.

Surrogate Exceptions

The control criteria were exceeded for the following surrogate in sample L-1, L-2, L-3, L-4, L-5, and L-6 due to matrix interferences: Decachlorobiphenyl. The samples formed a large emulsion during the extraction procedure that may have adversely affected surrogate recovery. No further corrective action was appropriate.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Semivolatile Organics by GC-MS

The samples were analyzed for Semivolatile Organics using EPA Method 8270. The following observations were made regarding this delivery group.

Approved by _____ **Date** 11/30/09

Surrogate Exceptions

The control criteria were exceeded for the following surrogates in sample FB-01-110209: 2,4,6-Tribromophenol and 2-Fluorophenol. No target analytes were detected in the associated field sample above the Method Reporting Limit (MRL). All other surrogate recoveries were acceptable. No further corrective action was appropriate.

Relative Percent Difference Exceptions

The Relative Percent Difference (RPD) for the following analytes in the replicate matrix spike analyses of sample FW-26B-110309 was outside control criteria: Anthracene, Naphthalene, and Phenol. All spike recoveries in the MS, DMS, and associated Laboratory Control Sample (LCS) were within acceptance limits, indicating the analytical batch was in control. No further corrective action was appropriate.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. The following observations were made regarding this delivery group.

Elevated Method Reporting Limits

The reporting limit is elevated for all 6010B/6020 analytes in samples L-1, L-2, L-3, L-4, L-5 and L-6. The sample extracts were diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extracts were highly colored, which indicated the need to perform a dilution prior to injection into the instruments.

The reporting limit is elevated for Mercury in samples L-1, L-2, L-3, L-4, L-5 and L-6. The sample extracts were diluted prior to the digestion step due to relatively high levels of non-target background components.

Sample Notes and Discussion

The Interference check sample (ICSA) is outside of acceptance criteria for Manganese. The interference check sample (ICSAB) recovery was acceptable. The analyte is present in the ICSA as a low level contaminate and sample results are not affected by this contamination. These solutions are used for validating interference correction.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. The following observations were made regarding this delivery group.

Elevated Method Reporting Limits

The reporting limit is elevated for Nitrate in sample L-1. The chromatogram indicated the presence of non-target background components and the sample had a high concentration of Chloride. The matrix interference prevented adequate resolution of the target analytes at the reporting limit.

Approved by _____ **Date** 11/30/09

Batch QC Notes and Discussion

Quality control samples for some parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Subcontracted Analytical Parameters

The samples were delivered to ENCO Labs in Jacksonville, FL on 11/13/09 for EPA Method 8151 determination. The certified analytical report has been included in its entirety in Appendix A: Subcontracted Analytical Results.

Approved by _____ **Date** 11/30/09

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02

Service Request: J0905605

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0905605-001	L-1	11/10/09	14:00
J0905605-002	L-2	11/10/09	13:55
J0905605-003	L-3	11/10/09	15:00
J0905605-004	L-4	11/10/09	12:40
J0905605-005	L-5	11/10/09	11:20
J0905605-006	L-6	11/10/09	15:30
J0905605-007	Trip Blank	11/10/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-1
Lab Code: J0905605-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	200	2.3	10	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	10	2.5	10	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	50	1.9	10	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	200	2.5	10	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	500	96	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	10	1.6	10	11/14/09	11/14/09	JWG0903818	
Acetone	**190**	I	500	24	10	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	50	25	10	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	100	8.4	10	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	250	33	10	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	50	7.2	10	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	100	5.9	10	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	10	1.3	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	10	5.6	10	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	100	6.0	10	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	10	2.4	10	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	**210**		100	5.6	10	11/14/09	11/14/09	JWG0903818	
Propionitrile	ND	U	250	8.7	10	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	50	1.4	10	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	50	2.0	10	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Benzene	**5.6**	I	10	5.2	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	1000	46	10	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	10	0.57	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-1
Lab Code: J0905605-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	50	1.2	10	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	20	2.1	10	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	ND	U	250	3.7	10	11/14/09	11/14/09	JWG0903818	
Toluene	**13**		10	5.2	10	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
2-Hexanone	ND	U	250	3.6	10	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	10	1.1	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	**34**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	**37**		20	2.2	10	11/14/09	11/14/09	JWG0903818	
o-Xylene	**18**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
Styrene	**0.65**	I	10	0.51	10	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	20	1.2	10	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	20	1.6	10	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	200	11	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	**9.3**	I	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	50	2.6	10	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	100	3.0	10	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	100	6.1	10	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	100	2.5	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-1
Lab Code: J0905605-001

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	107	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	101	75-120	11/14/09	Acceptable
Dibromofluoromethane	98	82-116	11/14/09	Acceptable
Toluene-d8	101	88-117	11/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	L-2	**Units:**	ug/L
Lab Code:	J0905605-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	200	2.3	10	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	10	2.5	10	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	50	1.9	10	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	200	2.5	10	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	500	96	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	10	1.6	10	11/14/09	11/14/09	JWG0903818	
Acetone	ND	U	500	24	10	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	50	25	10	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	100	8.4	10	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	250	33	10	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	50	7.2	10	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	100	5.9	10	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	10	1.3	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	10	5.6	10	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	100	6.0	10	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	10	2.4	10	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	ND	U	100	5.6	10	11/14/09	11/14/09	JWG0903818	
Propionitrile	ND	U	250	8.7	10	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	50	1.4	10	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	50	2.0	10	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Benzene	**8.8**	I	10	5.2	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	1000	46	10	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	10	0.57	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-2
Lab Code: J0905605-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	50	1.2	10	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	20	2.1	10	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	ND	U	250	3.7	10	11/14/09	11/14/09	JWG0903818	
Toluene	**13**		10	5.2	10	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
2-Hexanone	ND	U	250	3.6	10	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	10	1.1	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	**34**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	**44**		20	2.2	10	11/14/09	11/14/09	JWG0903818	
o-Xylene	**25**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
Styrene	ND	U	10	0.51	10	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	20	1.2	10	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	20	1.6	10	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	200	11	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	**7.6**	I	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	50	2.6	10	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	100	3.0	10	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	100	6.1	10	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	100	2.5	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-2
Lab Code: J0905605-002

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	105	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	106	75-120	11/14/09	Acceptable
Dibromofluoromethane	93	82-116	11/14/09	Acceptable
Toluene-d8	91	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-3
Lab Code: J0905605-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	200	2.3	10	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	10	2.5	10	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	50	1.9	10	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	200	2.5	10	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	500	96	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	10	1.6	10	11/14/09	11/14/09	JWG0903818	
Acetone	ND	U	500	24	10	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	50	25	10	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	100	8.4	10	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	250	33	10	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	50	7.2	10	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	100	5.9	10	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	10	1.3	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	10	5.6	10	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	100	6.0	10	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	10	2.4	10	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	ND	U	100	5.6	10	11/14/09	11/14/09	JWG0903818	
Propionitrile	ND	U	250	8.7	10	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	50	1.4	10	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	50	2.0	10	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Benzene	**11**		10	5.2	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	1000	46	10	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	10	0.57	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-3
Lab Code: J0905605-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	50	1.2	10	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	20	2.1	10	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	ND	U	250	3.7	10	11/14/09	11/14/09	JWG0903818	
Toluene	**23**		10	5.2	10	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
2-Hexanone	ND	U	250	3.6	10	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	10	1.1	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	**48**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	**58**		20	2.2	10	11/14/09	11/14/09	JWG0903818	
o-Xylene	**25**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
Styrene	**3.3**	I	10	0.51	10	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	20	1.2	10	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	20	1.6	10	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	200	11	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	**7.1**	I	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	50	2.6	10	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	100	3.0	10	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	100	6.1	10	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	100	2.5	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	L-3	**Units:**	ug/L
Lab Code:	J0905605-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	104	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	97	75-120	11/14/09	Acceptable
Dibromofluoromethane	96	82-116	11/14/09	Acceptable
Toluene-d8	97	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-4
Lab Code: J0905605-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	200	2.3	10	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	10	2.5	10	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	50	1.9	10	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	200	2.5	10	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	500	96	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	10	1.6	10	11/14/09	11/14/09	JWG0903818	
Acetone	**78**	I	500	24	10	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	50	25	10	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	100	8.4	10	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	250	33	10	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	50	7.2	10	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	100	5.9	10	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	10	1.3	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	10	5.6	10	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	100	6.0	10	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	10	2.4	10	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	**72**	I	100	5.6	10	11/14/09	11/14/09	JWG0903818	
Propionitrile	ND	U	250	8.7	10	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	50	1.4	10	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	50	2.0	10	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Benzene	**7.1**	I	10	5.2	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	1000	46	10	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	10	0.57	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-4
Lab Code: J0905605-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	50	1.2	10	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	20	2.1	10	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	ND	U	250	3.7	10	11/14/09	11/14/09	JWG0903818	
Toluene	**29**		10	5.2	10	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
2-Hexanone	ND	U	250	3.6	10	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	10	1.1	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	**35**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	**34**		20	2.2	10	11/14/09	11/14/09	JWG0903818	
o-Xylene	**18**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
Styrene	**1.3**	I	10	0.51	10	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	20	1.2	10	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	20	1.6	10	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	200	11	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	**5.0**	I	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	50	2.6	10	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	100	3.0	10	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	100	6.1	10	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	100	2.5	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	L-4	**Units:**	ug/L
Lab Code:	J0905605-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	104	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	101	75-120	11/14/09	Acceptable
Dibromofluoromethane	94	82-116	11/14/09	Acceptable
Toluene-d8	100	88-117	11/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-5
Lab Code: J0905605-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	200	2.3	10	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	10	2.5	10	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	50	1.9	10	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	200	2.5	10	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	500	96	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	10	1.6	10	11/14/09	11/14/09	JWG0903818	
Acetone	**83**	I	500	24	10	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	50	25	10	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	100	8.4	10	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	250	33	10	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	50	7.2	10	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	100	5.9	10	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	10	1.3	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	10	5.6	10	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	100	6.0	10	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	10	2.4	10	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	**190**		100	5.6	10	11/14/09	11/14/09	JWG0903818	
Propionitrile	ND	U	250	8.7	10	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	50	1.4	10	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	50	2.0	10	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Benzene	**9.0**	I	10	5.2	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	1000	46	10	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	10	0.57	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-5
Lab Code: J0905605-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	50	1.2	10	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	20	2.1	10	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	ND	U	250	3.7	10	11/14/09	11/14/09	JWG0903818	
Toluene	**21**		10	5.2	10	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
2-Hexanone	ND	U	250	3.6	10	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	10	1.1	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	**41**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	**53**		20	2.2	10	11/14/09	11/14/09	JWG0903818	
o-Xylene	**26**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
Styrene	**2.4**	I	10	0.51	10	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	20	1.2	10	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	20	1.6	10	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	200	11	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	**6.9**	I	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	50	2.6	10	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	100	3.0	10	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	100	6.1	10	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	100	2.5	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	L-5	**Units:**	ug/L
Lab Code:	J0905605-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	112	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	102	75-120	11/14/09	Acceptable
Dibromofluoromethane	102	82-116	11/14/09	Acceptable
Toluene-d8	95	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-6
Lab Code: J0905605-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	200	2.3	10	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	10	2.5	10	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	50	1.9	10	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	200	2.5	10	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	500	96	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	10	1.6	10	11/14/09	11/14/09	JWG0903818	
Acetone	**6400**		500	24	10	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	50	25	10	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	100	8.4	10	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	250	33	10	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	50	7.2	10	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	100	5.9	10	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	10	1.3	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	10	5.6	10	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	100	6.0	10	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	10	2.4	10	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	50	1.3	10	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	**12000**		1000	56	100	11/16/09	11/16/09	JWG0903848	
Propionitrile	ND	U	250	8.7	10	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	50	1.4	10	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	50	2.0	10	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Benzene	**8.4**	I	10	5.2	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	**4.8**	I	10	1.5	10	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	1000	46	10	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	10	0.57	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-6
Lab Code: J0905605-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	50	1.2	10	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	20	2.1	10	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	**98**	I	250	3.7	10	11/14/09	11/14/09	JWG0903818	
Toluene	**350**		10	5.2	10	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	10	1.2	10	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	10	2.1	10	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	10	2.2	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
2-Hexanone	**21**	I	250	3.6	10	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	10	1.1	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	10	1.8	10	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	10	1.0	10	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	**30**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	**46**		20	2.2	10	11/14/09	11/14/09	JWG0903818	
o-Xylene	**19**		10	1.0	10	11/14/09	11/14/09	JWG0903818	
Styrene	**5.5**	I	10	0.51	10	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	20	1.2	10	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	10	1.5	10	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	20	1.6	10	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	200	11	10	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	**3.7**	I	10	1.4	10	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	10	1.7	10	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	50	2.6	10	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	100	3.0	10	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	100	6.1	10	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	100	2.5	10	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-6
Lab Code: J0905605-006

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	104	75-120	11/14/09	Acceptable
Dibromofluoromethane	94	82-116	11/14/09	Acceptable
Toluene-d8	94	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Trip Blank
Lab Code: J0905605-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	20	0.23	1	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	50	9.6	1	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903818	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	25	3.3	1	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	5.0	0.13	1	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	1.0	0.24	1	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	5.0	0.13	1	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903818	
Propionitrile	ND	U	25	0.87	1	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	5.0	0.20	1	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903818	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	100	4.6	1	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Trip Blank
Lab Code: J0905605-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	2.0	0.21	1	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903818	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903818	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	10	0.30	1	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	10	0.61	1	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	10	0.25	1	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Trip Blank
Lab Code: J0905605-007

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	104	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	100	75-120	11/14/09	Acceptable
Dibromofluoromethane	94	82-116	11/14/09	Acceptable
Toluene-d8	96	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903818-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	20	0.23	1	11/14/09	11/14/09	JWG0903818	
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903818	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903818	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903818	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903818	
Acrolein	ND	U	50	9.6	1	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903818	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903818	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903818	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903818	
Acetonitrile	ND	U	25	3.3	1	11/14/09	11/14/09	JWG0903818	
Allyl Chloride	ND	U	5.0	0.13	1	11/14/09	11/14/09	JWG0903818	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903818	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903818	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903818	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903818	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903818	
Chloroprene	ND	U	1.0	0.24	1	11/14/09	11/14/09	JWG0903818	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903818	
2,2-Dichloropropane	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903818	
1,1-Dichloropropene	ND	U	5.0	0.13	1	11/14/09	11/14/09	JWG0903818	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903818	
Propionitrile	ND	U	25	0.87	1	11/14/09	11/14/09	JWG0903818	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903818	
Methacrylonitrile	ND	UJ	5.0	0.20	1	11/14/09	11/14/09	JWG0903818	J(3)
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903818	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903818	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903818	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
Isobutyl Alcohol	ND	U	100	4.6	1	11/14/09	11/14/09	JWG0903818	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903818	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903818-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903818	
Methyl Methacrylate	ND	U	2.0	0.21	1	11/14/09	11/14/09	JWG0903818	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903818	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903818	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903818	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903818	
Ethyl Methacrylate	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903818	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903818	
1,3-Dichloropropane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903818	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903818	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903818	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903818	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903818	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903818	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903818	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903818	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903818	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903818	
1,3-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903818	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903818	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903818	
1,2,4-Trichlorobenzene	ND	U	10	0.30	1	11/14/09	11/14/09	JWG0903818	
Hexachlorobutadiene	ND	U	10	0.61	1	11/14/09	11/14/09	JWG0903818	
Naphthalene	ND	U	10	0.25	1	11/14/09	11/14/09	JWG0903818	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0903818-4	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	110	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	105	75-120	11/14/09	Acceptable
Dibromofluoromethane	99	82-116	11/14/09	Acceptable
Toluene-d8	97	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903848-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	20	0.23	1	11/16/09	11/16/09	JWG0903848	
Chloromethane	ND	U	1.0	0.17	1	11/16/09	11/16/09	JWG0903848	
Vinyl Chloride	ND	U	1.0	0.25	1	11/16/09	11/16/09	JWG0903848	
Bromomethane	ND	U	1.0	0.14	1	11/16/09	11/16/09	JWG0903848	
Chloroethane	ND	U	5.0	0.19	1	11/16/09	11/16/09	JWG0903848	
Trichlorofluoromethane	ND	U	20	0.25	1	11/16/09	11/16/09	JWG0903848	
Acrolein	ND	U	50	9.6	1	11/16/09	11/16/09	JWG0903848	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/16/09	11/16/09	JWG0903848	
Acetone	ND	U	50	2.4	1	11/16/09	11/16/09	JWG0903848	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/16/09	11/16/09	JWG0903848	
Carbon Disulfide	ND	U	10	0.84	1	11/16/09	11/16/09	JWG0903848	
Acetonitrile	ND	U	25	3.3	1	11/16/09	11/16/09	JWG0903848	
Allyl Chloride	ND	U	5.0	0.13	1	11/16/09	11/16/09	JWG0903848	
Methylene Chloride	ND	U	5.0	0.72	1	11/16/09	11/16/09	JWG0903848	
Acrylonitrile	ND	U	10	0.59	1	11/16/09	11/16/09	JWG0903848	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/16/09	11/16/09	JWG0903848	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/16/09	11/16/09	JWG0903848	
Vinyl Acetate	ND	U	10	0.60	1	11/16/09	11/16/09	JWG0903848	
Chloroprene	ND	U	1.0	0.24	1	11/16/09	11/16/09	JWG0903848	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/16/09	11/16/09	JWG0903848	
2,2-Dichloropropane	ND	U	1.0	0.22	1	11/16/09	11/16/09	JWG0903848	
1,1-Dichloropropene	ND	U	5.0	0.13	1	11/16/09	11/16/09	JWG0903848	
2-Butanone (MEK)	ND	U	10	0.56	1	11/16/09	11/16/09	JWG0903848	
Propionitrile	ND	U	25	0.87	1	11/16/09	11/16/09	JWG0903848	
Bromochloromethane	ND	U	5.0	0.14	1	11/16/09	11/16/09	JWG0903848	
Methacrylonitrile	ND	U	5.0	0.20	1	11/16/09	11/16/09	JWG0903848	
Chloroform	ND	U	1.0	0.10	1	11/16/09	11/16/09	JWG0903848	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/16/09	11/16/09	JWG0903848	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/16/09	11/16/09	JWG0903848	
Benzene	ND	U	1.0	0.52	1	11/16/09	11/16/09	JWG0903848	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/16/09	11/16/09	JWG0903848	
Isobutyl Alcohol	ND	U	100	4.6	1	11/16/09	11/16/09	JWG0903848	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/16/09	11/16/09	JWG0903848	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/16/09	11/16/09	JWG0903848	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903848-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromomethane	ND	U	5.0	0.12	1	11/16/09	11/16/09	JWG0903848	
Methyl Methacrylate	ND	U	2.0	0.21	1	11/16/09	11/16/09	JWG0903848	
Bromodichloromethane	ND	U	1.0	0.10	1	11/16/09	11/16/09	JWG0903848	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/16/09	11/16/09	JWG0903848	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/16/09	11/16/09	JWG0903848	
Toluene	ND	U	1.0	0.52	1	11/16/09	11/16/09	JWG0903848	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/16/09	11/16/09	JWG0903848	
Ethyl Methacrylate	ND	U	1.0	0.14	1	11/16/09	11/16/09	JWG0903848	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/16/09	11/16/09	JWG0903848	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/16/09	11/16/09	JWG0903848	
1,3-Dichloropropane	ND	U	1.0	0.10	1	11/16/09	11/16/09	JWG0903848	
2-Hexanone	ND	U	25	0.36	1	11/16/09	11/16/09	JWG0903848	
Dibromochloromethane	ND	U	1.0	0.11	1	11/16/09	11/16/09	JWG0903848	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/16/09	11/16/09	JWG0903848	
Chlorobenzene	ND	U	1.0	0.15	1	11/16/09	11/16/09	JWG0903848	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/16/09	11/16/09	JWG0903848	
Ethylbenzene	ND	U	1.0	0.10	1	11/16/09	11/16/09	JWG0903848	
m,p-Xylenes	ND	U	2.0	0.22	1	11/16/09	11/16/09	JWG0903848	
o-Xylene	ND	U	1.0	0.10	1	11/16/09	11/16/09	JWG0903848	
Styrene	ND	U	1.0	0.051	1	11/16/09	11/16/09	JWG0903848	
Bromoform	ND	U	2.0	0.12	1	11/16/09	11/16/09	JWG0903848	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/16/09	11/16/09	JWG0903848	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/16/09	11/16/09	JWG0903848	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/16/09	11/16/09	JWG0903848	
1,3-Dichlorobenzene	ND	U	1.0	0.14	1	11/16/09	11/16/09	JWG0903848	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/16/09	11/16/09	JWG0903848	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/16/09	11/16/09	JWG0903848	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/16/09	11/16/09	JWG0903848	
1,2,4-Trichlorobenzene	ND	U	10	0.30	1	11/16/09	11/16/09	JWG0903848	
Hexachlorobutadiene	ND	U	10	0.61	1	11/16/09	11/16/09	JWG0903848	
Naphthalene	ND	U	10	0.25	1	11/16/09	11/16/09	JWG0903848	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903848-4

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	88	71-122	11/16/09	Acceptable
4-Bromofluorobenzene	120	75-120	11/16/09	Acceptable
Dibromofluoromethane	94	82-116	11/16/09	Acceptable
Toluene-d8	101	88-117	11/16/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	L-1	**Units:**	ug/L
Lab Code:	J0905605-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	99	77-150	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	L-2	**Units:**	ug/L
Lab Code:	J0905605-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	119	77-150	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	L-3	**Units:**	ug/L
Lab Code:	J0905605-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	94	77-150	11/18/09	Acceptable

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	L-4	**Units:**	ug/L
Lab Code:	J0905605-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	108	77-150	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	L-5	**Units:**	ug/L
Lab Code:	J0905605-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/19/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/19/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	98	77-150	11/19/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	L-6	**Units:**	ug/L
Lab Code:	J0905605-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/19/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/19/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	118	77-150	11/19/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0903823-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	11/18/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-1
Lab Code: J0905605-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.5	0.80	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosomethylethylamine	ND	U	5.5	0.90	1	11/12/09	11/21/09	JWG0903787	
Methyl Methanesulfonate	ND	U	5.5	0.61	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodiethylamine	ND	U	5.5	0.69	1	11/12/09	11/21/09	JWG0903787	
Ethyl Methanesulfonate	ND	U	5.5	0.71	1	11/12/09	11/21/09	JWG0903787	
Phenol	**18**		5.5	0.46	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroethyl) Ether	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
2-Chlorophenol	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
1,3-Dichlorobenzene	ND	U	5.5	0.77	1	11/12/09	11/21/09	JWG0903787	
1,4-Dichlorobenzene	**2.7**	I	5.5	1.4	1	11/12/09	11/21/09	JWG0903787	
1,2-Dichlorobenzene	ND	U	5.5	0.81	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroisopropyl) Ether	ND	U	5.5	0.62	1	11/12/09	11/21/09	JWG0903787	
Benzyl alcohol	ND	U	5.5	0.75	1	11/12/09	11/21/09	JWG0903787	
2-Methylphenol	ND	U	5.5	0.70	1	11/12/09	11/21/09	JWG0903787	
Acetophenone	ND	U	11	1.5	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopyrrolidine	ND	U	5.5	0.77	1	11/12/09	11/21/09	JWG0903787	
Hexachloroethane	ND	U	5.5	1.0	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodi-n-propylamine	ND	U	5.5	0.74	1	11/12/09	11/21/09	JWG0903787	
o-Toluidine	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
4-Methylphenol†	ND	U	5.5	0.84	1	11/12/09	11/21/09	JWG0903787	
Nitrobenzene	ND	U	5.5	0.80	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopiperidine	ND	U	5.5	1.8	1	11/12/09	11/21/09	JWG0903787	
Isophorone	ND	U	5.5	0.87	1	11/12/09	11/21/09	JWG0903787	
2-Nitrophenol	ND	U	22	0.66	1	11/12/09	11/21/09	JWG0903787	
2,4-Dimethylphenol	ND	U	5.5	0.86	1	11/12/09	11/21/09	JWG0903787	
O,O,O-Triethyl Phosphorothioate	ND	U	22	0.57	1	11/12/09	11/21/09	JWG0903787	
bis(2-Chloroethoxy)methane	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
2,4-Dichlorophenol	ND	U	5.5	0.55	1	11/12/09	11/21/09	JWG0903787	
1,2,4-Trichlorobenzene	ND	U	5.5	0.85	1	11/12/09	11/21/09	JWG0903787	
Naphthalene	ND	U	5.5	0.86	1	11/12/09	11/21/09	JWG0903787	
2,6-Dichlorophenol	ND	U	11	0.79	1	11/12/09	11/21/09	JWG0903787	
Hexachloropropene	ND	U	5.5	2.1	1	11/12/09	11/21/09	JWG0903787	
4-Chloroaniline	ND	U	5.5	0.58	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobutadiene	ND	U	5.5	0.67	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-1
Lab Code: J0905605-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodi-n-butylamine	ND	U	5.5	0.73	1	11/12/09	11/21/09	JWG0903787	
p-Phenylenediamine	ND	UJ	22	1.2	1	11/12/09	11/21/09	JWG0903787	J(3)
4-Chloro-3-methylphenol	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
2-Methylnaphthalene	ND	U	5.5	0.81	1	11/12/09	11/21/09	JWG0903787	
Hexachlorocyclopentadiene	ND	U	5.5	0.45	1	11/12/09	11/21/09	JWG0903787	
1,2,4,5-Tetrachlorobenzene	ND	U	5.5	0.60	1	11/12/09	11/21/09	JWG0903787	
Safrole	ND	U	5.5	0.78	1	11/12/09	11/21/09	JWG0903787	
2,4,6-Trichlorophenol	ND	U	5.5	0.80	1	11/12/09	11/21/09	JWG0903787	
2,4,5-Trichlorophenol	ND	U	5.5	0.71	1	11/12/09	11/21/09	JWG0903787	
Isosafrole	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
2-Chloronaphthalene	ND	U	5.5	0.78	1	11/12/09	11/21/09	JWG0903787	
2-Nitroaniline	ND	U	5.5	0.60	1	11/12/09	11/21/09	JWG0903787	
1,4-Naphthoquinone	ND	UJ	11	1.6	1	11/12/09	11/21/09	JWG0903787	J(3)
1,3-Dinitrobenzene	ND	U	11	1.7	1	11/12/09	11/21/09	JWG0903787	
Acenaphthylene	ND	U	5.5	0.64	1	11/12/09	11/21/09	JWG0903787	
Dimethyl Phthalate	ND	U	5.5	0.83	1	11/12/09	11/21/09	JWG0903787	
2,6-Dinitrotoluene	ND	U	5.5	0.91	1	11/12/09	11/21/09	JWG0903787	
Acenaphthene	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
3-Nitroaniline	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrophenol	ND	U	22	0.59	1	11/12/09	11/21/09	JWG0903787	
Pentachlorobenzene	ND	U	5.5	2.7	1	11/12/09	11/21/09	JWG0903787	
Dibenzofuran	ND	U	5.5	0.86	1	11/12/09	11/21/09	JWG0903787	
4-Nitrophenol	ND	U	22	1.1	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrotoluene	ND	U	5.5	4.5	1	11/12/09	11/21/09	JWG0903787	
2-Naphthylamine	ND	U	5.5	1.2	1	11/12/09	11/21/09	JWG0903787	
2,3,4,6-Tetrachlorophenol	ND	U	5.5	1.4	1	11/12/09	11/21/09	JWG0903787	
1-Naphthylamine	ND	U	5.5	1.2	1	11/12/09	11/21/09	JWG0903787	
Fluorene	ND	U	5.5	0.96	1	11/12/09	11/21/09	JWG0903787	
4-Chlorophenyl Phenyl Ether	ND	U	5.5	0.67	1	11/12/09	11/21/09	JWG0903787	
Thionazin	ND	U	11	0.89	1	11/12/09	11/21/09	JWG0903787	
Diethyl Phthalate	ND	U	5.5	4.5	1	11/12/09	11/21/09	JWG0903787	
5-Nitro-o-toluidine	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
4-Nitroaniline	ND	U	5.5	1.0	1	11/12/09	11/21/09	JWG0903787	
2-Methyl-4,6-dinitrophenol	ND	U	22	0.70	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-1
Lab Code: J0905605-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Diallate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Phorate	ND	U	5.5	0.96	1	11/12/09	11/21/09	JWG0903787	
1,3,5-Trinitrobenzene	ND	U	5.5	1.2	1	11/12/09	11/21/09	JWG0903787	
4-Bromophenyl Phenyl Ether	ND	U	5.5	0.73	1	11/12/09	11/21/09	JWG0903787	
Phenacetin	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobenzene	ND	U	5.5	0.69	1	11/12/09	11/21/09	JWG0903787	
Dimethoate	ND	U	5.5	0.98	1	11/12/09	11/21/09	JWG0903787	
4-Aminobiphenyl	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Pentachlorophenol	ND	U	22	0.73	1	11/12/09	11/21/09	JWG0903787	
Pentachloronitrobenzene	ND	U	5.5	1.7	1	11/12/09	11/21/09	JWG0903787	
Pronamide	ND	U	22	0.93	1	11/12/09	11/21/09	JWG0903787	
Phenanthrene	ND	U	5.5	0.77	1	11/12/09	11/21/09	JWG0903787	
Disulfoton	ND	U	5.5	0.57	1	11/12/09	11/21/09	JWG0903787	
Dinoseb	ND	U	5.5	0.67	1	11/12/09	11/21/09	JWG0903787	
Anthracene	ND	U	5.5	0.78	1	11/12/09	11/21/09	JWG0903787	
Methyl Parathion	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
Di-n-butyl Phthalate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Parathion	ND	U	22	1.1	1	11/12/09	11/21/09	JWG0903787	
Methapyrilene	ND	U	5.5	1.7	1	11/12/09	11/21/09	JWG0903787	
Isodrin	ND	U	11	0.78	1	11/12/09	11/21/09	JWG0903787	
Fluoranthene	ND	U	5.5	0.72	1	11/12/09	11/21/09	JWG0903787	
Pyrene	ND	U	5.5	0.92	1	11/12/09	11/21/09	JWG0903787	
Chlorobenzilate	ND	U	11	0.92	1	11/12/09	11/21/09	JWG0903787	
Famphur	ND	UJ	11	0.75	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dimethylbenzidine	ND	U	22	2.5	1	11/12/09	11/21/09	JWG0903787	
p-Dimethylaminoazobenzene	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
Butyl Benzyl Phthalate	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
2-Acetylaminofluorene	ND	U	5.5	0.98	1	11/12/09	11/21/09	JWG0903787	
Kepone	ND	UJ	55	4.6	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dichlorobenzidine	**5.0**	I	22	0.97	1	11/12/09	11/21/09	JWG0903787	
Benz(a)anthracene	ND	U	5.5	0.94	1	11/12/09	11/21/09	JWG0903787	
Chrysene	ND	U	5.5	0.95	1	11/12/09	11/21/09	JWG0903787	
Bis(2-ethylhexyl) Phthalate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-1
Lab Code: J0905605-001

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Di-n-octyl Phthalate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Benzo(b)fluoranthene	ND	U	5.5	0.95	1	11/12/09	11/21/09	JWG0903787	
Benzo(k)fluoranthene	ND	U	5.5	0.59	1	11/12/09	11/21/09	JWG0903787	
7,12-Dimethylbenz(a)anthracene	ND	U	5.5	0.95	1	11/12/09	11/21/09	JWG0903787	
Benzo(a)pyrene	ND	U	5.5	0.69	1	11/12/09	11/21/09	JWG0903787	
3-Methylcholanthrene	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.60	1	11/12/09	11/21/09	JWG0903787	
Dibenz(a,h)anthracene	ND	U	5.5	0.68	1	11/12/09	11/21/09	JWG0903787	
Benzo(g,h,i)perylene	ND	U	5.5	0.99	1	11/12/09	11/21/09	JWG0903787	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	23	10-77	11/21/09	Acceptable
Phenol-d6	22	10-51	11/21/09	Acceptable
Nitrobenzene-d5	42	32-106	11/21/09	Acceptable
2-Fluorobiphenyl	45	30-102	11/21/09	Acceptable
2,4,6-Tribromophenol	46	30-143	11/21/09	Acceptable
Terphenyl-d14	18	23-165	11/21/09	Outside Control Limits

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-2
Lab Code: J0905605-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.4	0.78	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosomethylethylamine	ND	U	5.4	0.88	1	11/12/09	11/21/09	JWG0903787	
Methyl Methanesulfonate	ND	U	5.4	0.60	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodiethylamine	ND	U	5.4	0.68	1	11/12/09	11/21/09	JWG0903787	
Ethyl Methanesulfonate	ND	U	5.4	0.70	1	11/12/09	11/21/09	JWG0903787	
Phenol	ND	U	5.4	0.45	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroethyl) Ether	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
2-Chlorophenol	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
1,3-Dichlorobenzene	ND	U	5.4	0.75	1	11/12/09	11/21/09	JWG0903787	
1,4-Dichlorobenzene	**3.7**	I	5.4	1.3	1	11/12/09	11/21/09	JWG0903787	
1,2-Dichlorobenzene	ND	U	5.4	0.79	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroisopropyl) Ether	ND	U	5.4	0.61	1	11/12/09	11/21/09	JWG0903787	
Benzyl alcohol	ND	U	5.4	0.74	1	11/12/09	11/21/09	JWG0903787	
2-Methylphenol	ND	U	5.4	0.69	1	11/12/09	11/21/09	JWG0903787	
Acetophenone	ND	U	11	1.4	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopyrrolidine	ND	U	5.4	0.75	1	11/12/09	11/21/09	JWG0903787	
Hexachloroethane	ND	U	5.4	0.98	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodi-n-propylamine	ND	U	5.4	0.73	1	11/12/09	11/21/09	JWG0903787	
o-Toluidine	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
4-Methylphenol†	ND	U	5.4	0.82	1	11/12/09	11/21/09	JWG0903787	
Nitrobenzene	ND	U	5.4	0.78	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopiperidine	ND	U	5.4	1.8	1	11/12/09	11/21/09	JWG0903787	
Isophorone	ND	U	5.4	0.86	1	11/12/09	11/21/09	JWG0903787	
2-Nitrophenol	ND	U	22	0.64	1	11/12/09	11/21/09	JWG0903787	
2,4-Dimethylphenol	ND	U	5.4	0.85	1	11/12/09	11/21/09	JWG0903787	
O,O,O-Triethyl Phosphorothioate	ND	U	22	0.56	1	11/12/09	11/21/09	JWG0903787	
bis(2-Chloroethoxy)methane	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
2,4-Dichlorophenol	ND	U	5.4	0.54	1	11/12/09	11/21/09	JWG0903787	
1,2,4-Trichlorobenzene	ND	U	5.4	0.83	1	11/12/09	11/21/09	JWG0903787	
Naphthalene	**4.8**	I	5.4	0.85	1	11/12/09	11/21/09	JWG0903787	
2,6-Dichlorophenol	ND	U	11	0.77	1	11/12/09	11/21/09	JWG0903787	
Hexachloropropene	ND	U	5.4	2.1	1	11/12/09	11/21/09	JWG0903787	
4-Chloroaniline	ND	U	5.4	0.57	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobutadiene	ND	U	5.4	0.65	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-2
Lab Code: J0905605-002

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodi-n-butylamine	ND	U	5.4	0.72	1	11/12/09	11/21/09	JWG0903787	
p-Phenylenediamine	ND	UJ	22	1.2	1	11/12/09	11/21/09	JWG0903787	J(3)
4-Chloro-3-methylphenol	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
2-Methylnaphthalene	ND	U	5.4	0.79	1	11/12/09	11/21/09	JWG0903787	
Hexachlorocyclopentadiene	ND	U	5.4	0.44	1	11/12/09	11/21/09	JWG0903787	
1,2,4,5-Tetrachlorobenzene	ND	U	5.4	0.59	1	11/12/09	11/21/09	JWG0903787	
Safrole	ND	U	5.4	0.76	1	11/12/09	11/21/09	JWG0903787	
2,4,6-Trichlorophenol	ND	U	5.4	0.78	1	11/12/09	11/21/09	JWG0903787	
2,4,5-Trichlorophenol	ND	U	5.4	0.70	1	11/12/09	11/21/09	JWG0903787	
Isosafrole	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
2-Chloronaphthalene	ND	U	5.4	0.76	1	11/12/09	11/21/09	JWG0903787	
2-Nitroaniline	ND	U	5.4	0.59	1	11/12/09	11/21/09	JWG0903787	
1,4-Naphthoquinone	ND	UJ	11	1.5	1	11/12/09	11/21/09	JWG0903787	J(3)
1,3-Dinitrobenzene	ND	U	11	1.6	1	11/12/09	11/21/09	JWG0903787	
Acenaphthylene	ND	U	5.4	0.62	1	11/12/09	11/21/09	JWG0903787	
Dimethyl Phthalate	ND	U	5.4	0.81	1	11/12/09	11/21/09	JWG0903787	
2,6-Dinitrotoluene	ND	U	5.4	0.89	1	11/12/09	11/21/09	JWG0903787	
Acenaphthene	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
3-Nitroaniline	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrophenol	ND	U	22	0.58	1	11/12/09	11/21/09	JWG0903787	
Pentachlorobenzene	ND	U	5.4	2.6	1	11/12/09	11/21/09	JWG0903787	
Dibenzofuran	ND	U	5.4	0.85	1	11/12/09	11/21/09	JWG0903787	
4-Nitrophenol	ND	U	22	0.99	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrotoluene	ND	U	5.4	4.4	1	11/12/09	11/21/09	JWG0903787	
2-Naphthylamine	ND	U	5.4	1.2	1	11/12/09	11/21/09	JWG0903787	
2,3,4,6-Tetrachlorophenol	ND	U	5.4	1.3	1	11/12/09	11/21/09	JWG0903787	
1-Naphthylamine	ND	U	5.4	1.2	1	11/12/09	11/21/09	JWG0903787	
Fluorene	ND	U	5.4	0.94	1	11/12/09	11/21/09	JWG0903787	
4-Chlorophenyl Phenyl Ether	ND	U	5.4	0.65	1	11/12/09	11/21/09	JWG0903787	
Thionazin	ND	U	11	0.87	1	11/12/09	11/21/09	JWG0903787	
Diethyl Phthalate	ND	U	5.4	4.4	1	11/12/09	11/21/09	JWG0903787	
5-Nitro-o-toluidine	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
4-Nitroaniline	ND	U	5.4	0.98	1	11/12/09	11/21/09	JWG0903787	
2-Methyl-4,6-dinitrophenol	ND	U	22	0.69	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-2
Lab Code: J0905605-002

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Diallate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Phorate	ND	U	5.4	0.94	1	11/12/09	11/21/09	JWG0903787	
1,3,5-Trinitrobenzene	ND	U	5.4	1.2	1	11/12/09	11/21/09	JWG0903787	
4-Bromophenyl Phenyl Ether	ND	U	5.4	0.72	1	11/12/09	11/21/09	JWG0903787	
Phenacetin	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobenzene	ND	U	5.4	0.68	1	11/12/09	11/21/09	JWG0903787	
Dimethoate	ND	U	5.4	0.96	1	11/12/09	11/21/09	JWG0903787	
4-Aminobiphenyl	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Pentachlorophenol	ND	U	22	0.72	1	11/12/09	11/21/09	JWG0903787	
Pentachloronitrobenzene	ND	U	5.4	1.6	1	11/12/09	11/21/09	JWG0903787	
Pronamide	ND	U	22	0.91	1	11/12/09	11/21/09	JWG0903787	
Phenanthrene	ND	U	5.4	0.75	1	11/12/09	11/21/09	JWG0903787	
Disulfoton	ND	U	5.4	0.56	1	11/12/09	11/21/09	JWG0903787	
Dinoseb	ND	U	5.4	0.65	1	11/12/09	11/21/09	JWG0903787	
Anthracene	ND	U	5.4	0.76	1	11/12/09	11/21/09	JWG0903787	
Methyl Parathion	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
Di-n-butyl Phthalate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Parathion	ND	U	22	0.99	1	11/12/09	11/21/09	JWG0903787	
Methapyrilene	ND	U	5.4	1.6	1	11/12/09	11/21/09	JWG0903787	
Isodrin	ND	U	11	0.76	1	11/12/09	11/21/09	JWG0903787	
Fluoranthene	ND	U	5.4	0.71	1	11/12/09	11/21/09	JWG0903787	
Pyrene	ND	U	5.4	0.90	1	11/12/09	11/21/09	JWG0903787	
Chlorobenzilate	ND	U	11	0.90	1	11/12/09	11/21/09	JWG0903787	
Famphur	ND	UJ	11	0.74	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dimethylbenzidine	ND	U	22	2.5	1	11/12/09	11/21/09	JWG0903787	
p-Dimethylaminoazobenzene	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
Butyl Benzyl Phthalate	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
2-Acetylaminofluorene	ND	U	5.4	0.96	1	11/12/09	11/21/09	JWG0903787	
Kepone	ND	UJ	54	4.5	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dichlorobenzidine	ND	U	22	0.95	1	11/12/09	11/21/09	JWG0903787	
Benz(a)anthracene	ND	U	5.4	0.92	1	11/12/09	11/21/09	JWG0903787	
Chrysene	ND	U	5.4	0.93	1	11/12/09	11/21/09	JWG0903787	
Bis(2-ethylhexyl) Phthalate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-2
Lab Code: J0905605-002

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Di-n-octyl Phthalate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Benzo(b)fluoranthene	ND	U	5.4	0.93	1	11/12/09	11/21/09	JWG0903787	
Benzo(k)fluoranthene	ND	U	5.4	0.58	1	11/12/09	11/21/09	JWG0903787	
7,12-Dimethylbenz(a)anthracene	ND	U	5.4	0.93	1	11/12/09	11/21/09	JWG0903787	
Benzo(a)pyrene	ND	U	5.4	0.68	1	11/12/09	11/21/09	JWG0903787	
3-Methylcholanthrene	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Indeno(1,2,3-cd)pyrene	ND	U	5.4	0.59	1	11/12/09	11/21/09	JWG0903787	
Dibenz(a,h)anthracene	ND	U	5.4	0.66	1	11/12/09	11/21/09	JWG0903787	
Benzo(g,h,i)perylene	ND	U	5.4	0.97	1	11/12/09	11/21/09	JWG0903787	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	31	10-77	11/21/09	Acceptable
Phenol-d6	25	10-51	11/25/09	Acceptable
Nitrobenzene-d5	64	32-106	11/21/09	Acceptable
2-Fluorobiphenyl	43	30-102	11/21/09	Acceptable
2,4,6-Tribromophenol	48	30-143	11/21/09	Acceptable
Terphenyl-d14	26	23-165	11/21/09	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-3
Lab Code: J0905605-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.4	0.78	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosomethylethylamine	ND	U	5.4	0.88	1	11/12/09	11/21/09	JWG0903787	
Methyl Methanesulfonate	ND	U	5.4	0.60	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodiethylamine	ND	U	5.4	0.68	1	11/12/09	11/21/09	JWG0903787	
Ethyl Methanesulfonate	ND	U	5.4	0.70	1	11/12/09	11/21/09	JWG0903787	
Phenol	ND	U	5.4	0.45	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroethyl) Ether	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
2-Chlorophenol	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
1,3-Dichlorobenzene	ND	U	5.4	0.75	1	11/12/09	11/21/09	JWG0903787	
1,4-Dichlorobenzene	**3.8**	I	5.4	1.3	1	11/12/09	11/21/09	JWG0903787	
1,2-Dichlorobenzene	ND	U	5.4	0.79	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroisopropyl) Ether	ND	U	5.4	0.61	1	11/12/09	11/21/09	JWG0903787	
Benzyl alcohol	ND	U	5.4	0.74	1	11/12/09	11/21/09	JWG0903787	
2-Methylphenol	ND	U	5.4	0.69	1	11/12/09	11/21/09	JWG0903787	
Acetophenone	ND	U	11	1.4	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopyrrolidine	ND	U	5.4	0.75	1	11/12/09	11/21/09	JWG0903787	
Hexachloroethane	ND	U	5.4	0.98	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodi-n-propylamine	ND	U	5.4	0.73	1	11/12/09	11/21/09	JWG0903787	
o-Toluidine	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
4-Methylphenol†	ND	U	5.4	0.82	1	11/12/09	11/21/09	JWG0903787	
Nitrobenzene	ND	U	5.4	0.78	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopiperidine	ND	U	5.4	1.8	1	11/12/09	11/21/09	JWG0903787	
Isophorone	ND	U	5.4	0.86	1	11/12/09	11/21/09	JWG0903787	
2-Nitrophenol	ND	U	22	0.64	1	11/12/09	11/21/09	JWG0903787	
2,4-Dimethylphenol	ND	U	5.4	0.85	1	11/12/09	11/21/09	JWG0903787	
O,O,O-Triethyl Phosphorothioate	ND	U	22	0.56	1	11/12/09	11/21/09	JWG0903787	
bis(2-Chloroethoxy)methane	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
2,4-Dichlorophenol	ND	U	5.4	0.54	1	11/12/09	11/21/09	JWG0903787	
1,2,4-Trichlorobenzene	ND	U	5.4	0.83	1	11/12/09	11/21/09	JWG0903787	
Naphthalene	ND	U	5.4	0.85	1	11/12/09	11/21/09	JWG0903787	
2,6-Dichlorophenol	ND	U	11	0.77	1	11/12/09	11/21/09	JWG0903787	
Hexachloropropene	ND	U	5.4	2.1	1	11/12/09	11/21/09	JWG0903787	
4-Chloroaniline	ND	U	5.4	0.57	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobutadiene	ND	U	5.4	0.65	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-3
Lab Code: J0905605-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodi-n-butylamine	ND	U	5.4	0.72	1	11/12/09	11/21/09	JWG0903787	
p-Phenylenediamine	ND	UJ	22	1.2	1	11/12/09	11/21/09	JWG0903787	J(3)
4-Chloro-3-methylphenol	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
2-Methylnaphthalene	ND	U	5.4	0.79	1	11/12/09	11/21/09	JWG0903787	
Hexachlorocyclopentadiene	ND	U	5.4	0.44	1	11/12/09	11/21/09	JWG0903787	
1,2,4,5-Tetrachlorobenzene	ND	U	5.4	0.59	1	11/12/09	11/21/09	JWG0903787	
Safrole	ND	U	5.4	0.76	1	11/12/09	11/21/09	JWG0903787	
2,4,6-Trichlorophenol	ND	U	5.4	0.78	1	11/12/09	11/21/09	JWG0903787	
2,4,5-Trichlorophenol	ND	U	5.4	0.70	1	11/12/09	11/21/09	JWG0903787	
Isosafrole	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
2-Chloronaphthalene	ND	U	5.4	0.76	1	11/12/09	11/21/09	JWG0903787	
2-Nitroaniline	ND	U	5.4	0.59	1	11/12/09	11/21/09	JWG0903787	
1,4-Naphthoquinone	ND	UJ	11	1.5	1	11/12/09	11/21/09	JWG0903787	J(3)
1,3-Dinitrobenzene	ND	U	11	1.6	1	11/12/09	11/21/09	JWG0903787	
Acenaphthylene	ND	U	5.4	0.62	1	11/12/09	11/21/09	JWG0903787	
Dimethyl Phthalate	ND	U	5.4	0.81	1	11/12/09	11/21/09	JWG0903787	
2,6-Dinitrotoluene	ND	U	5.4	0.89	1	11/12/09	11/21/09	JWG0903787	
Acenaphthene	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
3-Nitroaniline	ND	U	5.4	0.80	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrophenol	ND	U	22	0.58	1	11/12/09	11/21/09	JWG0903787	
Pentachlorobenzene	ND	U	5.4	2.6	1	11/12/09	11/21/09	JWG0903787	
Dibenzofuran	ND	U	5.4	0.85	1	11/12/09	11/21/09	JWG0903787	
4-Nitrophenol	ND	U	22	0.99	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrotoluene	ND	U	5.4	4.4	1	11/12/09	11/21/09	JWG0903787	
2-Naphthylamine	ND	U	5.4	1.2	1	11/12/09	11/21/09	JWG0903787	
2,3,4,6-Tetrachlorophenol	ND	U	5.4	1.3	1	11/12/09	11/21/09	JWG0903787	
1-Naphthylamine	ND	U	5.4	1.2	1	11/12/09	11/21/09	JWG0903787	
Fluorene	ND	U	5.4	0.94	1	11/12/09	11/21/09	JWG0903787	
4-Chlorophenyl Phenyl Ether	ND	U	5.4	0.65	1	11/12/09	11/21/09	JWG0903787	
Thionazin	ND	U	11	0.87	1	11/12/09	11/21/09	JWG0903787	
Diethyl Phthalate	ND	U	5.4	4.4	1	11/12/09	11/21/09	JWG0903787	
5-Nitro-o-toluidine	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
4-Nitroaniline	ND	U	5.4	0.98	1	11/12/09	11/21/09	JWG0903787	
2-Methyl-4,6-dinitrophenol	ND	U	22	0.69	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-3
Lab Code: J0905605-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Diallate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Phorate	ND	U	5.4	0.94	1	11/12/09	11/21/09	JWG0903787	
1,3,5-Trinitrobenzene	ND	U	5.4	1.2	1	11/12/09	11/21/09	JWG0903787	
4-Bromophenyl Phenyl Ether	ND	U	5.4	0.72	1	11/12/09	11/21/09	JWG0903787	
Phenacetin	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobenzene	ND	U	5.4	0.68	1	11/12/09	11/21/09	JWG0903787	
Dimethoate	ND	U	5.4	0.96	1	11/12/09	11/21/09	JWG0903787	
4-Aminobiphenyl	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Pentachlorophenol	ND	U	22	0.72	1	11/12/09	11/21/09	JWG0903787	
Pentachloronitrobenzene	ND	U	5.4	1.6	1	11/12/09	11/21/09	JWG0903787	
Pronamide	ND	U	22	0.91	1	11/12/09	11/21/09	JWG0903787	
Phenanthrene	ND	U	5.4	0.75	1	11/12/09	11/21/09	JWG0903787	
Disulfoton	ND	U	5.4	0.56	1	11/12/09	11/21/09	JWG0903787	
Dinoseb	ND	U	5.4	0.65	1	11/12/09	11/21/09	JWG0903787	
Anthracene	ND	U	5.4	0.76	1	11/12/09	11/21/09	JWG0903787	
Methyl Parathion	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
Di-n-butyl Phthalate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Parathion	ND	U	22	0.99	1	11/12/09	11/21/09	JWG0903787	
Methapyrilene	ND	U	5.4	1.6	1	11/12/09	11/21/09	JWG0903787	
Isodrin	ND	U	11	0.76	1	11/12/09	11/21/09	JWG0903787	
Fluoranthene	ND	U	5.4	0.71	1	11/12/09	11/21/09	JWG0903787	
Pyrene	ND	U	5.4	0.90	1	11/12/09	11/21/09	JWG0903787	
Chlorobenzilate	ND	U	11	0.90	1	11/12/09	11/21/09	JWG0903787	
Famphur	ND	UJ	11	0.74	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dimethylbenzidine	ND	U	22	2.5	1	11/12/09	11/21/09	JWG0903787	
p-Dimethylaminoazobenzene	ND	U	5.4	0.95	1	11/12/09	11/21/09	JWG0903787	
Butyl Benzyl Phthalate	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
2-Acetylaminofluorene	ND	U	5.4	0.96	1	11/12/09	11/21/09	JWG0903787	
Kepone	ND	UJ	54	4.5	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dichlorobenzidine	**3.3**	I	22	0.95	1	11/12/09	11/21/09	JWG0903787	
Benz(a)anthracene	ND	U	5.4	0.92	1	11/12/09	11/21/09	JWG0903787	
Chrysene	ND	U	5.4	0.93	1	11/12/09	11/21/09	JWG0903787	
Bis(2-ethylhexyl) Phthalate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-3
Lab Code: J0905605-003

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Di-n-octyl Phthalate	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Benzo(b)fluoranthene	ND	U	5.4	0.93	1	11/12/09	11/21/09	JWG0903787	
Benzo(k)fluoranthene	ND	U	5.4	0.58	1	11/12/09	11/21/09	JWG0903787	
7,12-Dimethylbenz(a)anthracene	ND	U	5.4	0.93	1	11/12/09	11/21/09	JWG0903787	
Benzo(a)pyrene	ND	U	5.4	0.68	1	11/12/09	11/21/09	JWG0903787	
3-Methylcholanthrene	ND	U	5.4	1.1	1	11/12/09	11/21/09	JWG0903787	
Indeno(1,2,3-cd)pyrene	ND	U	5.4	0.59	1	11/12/09	11/21/09	JWG0903787	
Dibenz(a,h)anthracene	ND	U	5.4	0.66	1	11/12/09	11/21/09	JWG0903787	
Benzo(g,h,i)perylene	ND	U	5.4	0.97	1	11/12/09	11/21/09	JWG0903787	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	30	10-77	11/21/09	Acceptable
Phenol-d6	19	10-51	11/21/09	Acceptable
Nitrobenzene-d5	56	32-106	11/21/09	Acceptable
2-Fluorobiphenyl	50	30-102	11/21/09	Acceptable
2,4,6-Tribromophenol	58	30-143	11/21/09	Acceptable
Terphenyl-d14	28	23-165	11/21/09	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-4
Lab Code: J0905605-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.5	0.80	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosomethylethylamine	ND	U	5.5	0.90	1	11/12/09	11/21/09	JWG0903787	
Methyl Methanesulfonate	ND	U	5.5	0.61	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodiethylamine	ND	U	5.5	0.69	1	11/12/09	11/21/09	JWG0903787	
Ethyl Methanesulfonate	ND	U	5.5	0.71	1	11/12/09	11/21/09	JWG0903787	
Phenol	ND	U	5.5	0.46	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroethyl) Ether	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
2-Chlorophenol	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
1,3-Dichlorobenzene	ND	U	5.5	0.77	1	11/12/09	11/21/09	JWG0903787	
1,4-Dichlorobenzene	**2.0**	I	5.5	1.4	1	11/12/09	11/21/09	JWG0903787	
1,2-Dichlorobenzene	ND	U	5.5	0.81	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroisopropyl) Ether	ND	U	5.5	0.62	1	11/12/09	11/21/09	JWG0903787	
Benzyl alcohol	ND	U	5.5	0.75	1	11/12/09	11/21/09	JWG0903787	
2-Methylphenol	ND	U	5.5	0.70	1	11/12/09	11/21/09	JWG0903787	
Acetophenone	ND	U	11	1.5	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopyrrolidine	ND	U	5.5	0.77	1	11/12/09	11/21/09	JWG0903787	
Hexachloroethane	ND	U	5.5	1.0	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodi-n-propylamine	ND	U	5.5	0.74	1	11/12/09	11/21/09	JWG0903787	
o-Toluidine	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
4-Methylphenol†	**53**		5.5	0.84	1	11/12/09	11/21/09	JWG0903787	
Nitrobenzene	ND	U	5.5	0.80	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopiperidine	ND	U	5.5	1.8	1	11/12/09	11/21/09	JWG0903787	
Isophorone	ND	U	5.5	0.87	1	11/12/09	11/21/09	JWG0903787	
2-Nitrophenol	ND	U	22	0.66	1	11/12/09	11/21/09	JWG0903787	
2,4-Dimethylphenol	ND	U	5.5	0.86	1	11/12/09	11/21/09	JWG0903787	
O,O,O-Triethyl Phosphorothioate	ND	U	22	0.57	1	11/12/09	11/21/09	JWG0903787	
bis(2-Chloroethoxy)methane	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
2,4-Dichlorophenol	ND	U	5.5	0.55	1	11/12/09	11/21/09	JWG0903787	
1,2,4-Trichlorobenzene	ND	U	5.5	0.85	1	11/12/09	11/21/09	JWG0903787	
Naphthalene	**5.2**	I	5.5	0.86	1	11/12/09	11/21/09	JWG0903787	
2,6-Dichlorophenol	ND	U	11	0.79	1	11/12/09	11/21/09	JWG0903787	
Hexachloropropene	ND	U	5.5	2.1	1	11/12/09	11/21/09	JWG0903787	
4-Chloroaniline	ND	U	5.5	0.58	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobutadiene	ND	U	5.5	0.67	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-4
Lab Code: J0905605-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodi-n-butylamine	ND	U	5.5	0.73	1	11/12/09	11/21/09	JWG0903787	
p-Phenylenediamine	ND	UJ	22	1.2	1	11/12/09	11/21/09	JWG0903787	J(3)
4-Chloro-3-methylphenol	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
2-Methylnaphthalene	ND	U	5.5	0.81	1	11/12/09	11/21/09	JWG0903787	
Hexachlorocyclopentadiene	ND	U	5.5	0.45	1	11/12/09	11/21/09	JWG0903787	
1,2,4,5-Tetrachlorobenzene	ND	U	5.5	0.60	1	11/12/09	11/21/09	JWG0903787	
Safrole	ND	U	5.5	0.78	1	11/12/09	11/21/09	JWG0903787	
2,4,6-Trichlorophenol	ND	U	5.5	0.80	1	11/12/09	11/21/09	JWG0903787	
2,4,5-Trichlorophenol	ND	U	5.5	0.71	1	11/12/09	11/21/09	JWG0903787	
Isosafrole	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
2-Chloronaphthalene	ND	U	5.5	0.78	1	11/12/09	11/21/09	JWG0903787	
2-Nitroaniline	ND	U	5.5	0.60	1	11/12/09	11/21/09	JWG0903787	
1,4-Naphthoquinone	ND	UJ	11	1.6	1	11/12/09	11/21/09	JWG0903787	J(3)
1,3-Dinitrobenzene	ND	U	11	1.7	1	11/12/09	11/21/09	JWG0903787	
Acenaphthylene	ND	U	5.5	0.64	1	11/12/09	11/21/09	JWG0903787	
Dimethyl Phthalate	ND	U	5.5	0.83	1	11/12/09	11/21/09	JWG0903787	
2,6-Dinitrotoluene	ND	U	5.5	0.91	1	11/12/09	11/21/09	JWG0903787	
Acenaphthene	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
3-Nitroaniline	ND	U	5.5	0.82	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrophenol	ND	U	22	0.59	1	11/12/09	11/21/09	JWG0903787	
Pentachlorobenzene	ND	U	5.5	2.7	1	11/12/09	11/21/09	JWG0903787	
Dibenzofuran	ND	U	5.5	0.86	1	11/12/09	11/21/09	JWG0903787	
4-Nitrophenol	ND	U	22	1.1	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrotoluene	ND	U	5.5	4.5	1	11/12/09	11/21/09	JWG0903787	
2-Naphthylamine	ND	U	5.5	1.2	1	11/12/09	11/21/09	JWG0903787	
2,3,4,6-Tetrachlorophenol	ND	U	5.5	1.4	1	11/12/09	11/21/09	JWG0903787	
1-Naphthylamine	ND	U	5.5	1.2	1	11/12/09	11/21/09	JWG0903787	
Fluorene	ND	U	5.5	0.96	1	11/12/09	11/21/09	JWG0903787	
4-Chlorophenyl Phenyl Ether	ND	U	5.5	0.67	1	11/12/09	11/21/09	JWG0903787	
Thionazin	ND	U	11	0.89	1	11/12/09	11/21/09	JWG0903787	
Diethyl Phthalate	ND	U	5.5	4.5	1	11/12/09	11/21/09	JWG0903787	
5-Nitro-o-toluidine	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
4-Nitroaniline	ND	U	5.5	1.0	1	11/12/09	11/21/09	JWG0903787	
2-Methyl-4,6-dinitrophenol	ND	U	22	0.70	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-4
Lab Code: J0905605-004

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Diallate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Phorate	ND	U	5.5	0.96	1	11/12/09	11/21/09	JWG0903787	
1,3,5-Trinitrobenzene	ND	U	5.5	1.2	1	11/12/09	11/21/09	JWG0903787	
4-Bromophenyl Phenyl Ether	ND	U	5.5	0.73	1	11/12/09	11/21/09	JWG0903787	
Phenacetin	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobenzene	ND	U	5.5	0.69	1	11/12/09	11/21/09	JWG0903787	
Dimethoate	ND	U	5.5	0.98	1	11/12/09	11/21/09	JWG0903787	
4-Aminobiphenyl	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Pentachlorophenol	ND	U	22	0.73	1	11/12/09	11/21/09	JWG0903787	
Pentachloronitrobenzene	ND	U	5.5	1.7	1	11/12/09	11/21/09	JWG0903787	
Pronamide	ND	U	22	0.93	1	11/12/09	11/21/09	JWG0903787	
Phenanthrene	ND	U	5.5	0.77	1	11/12/09	11/21/09	JWG0903787	
Disulfoton	ND	U	5.5	0.57	1	11/12/09	11/21/09	JWG0903787	
Dinoseb	ND	U	5.5	0.67	1	11/12/09	11/21/09	JWG0903787	
Anthracene	ND	U	5.5	0.78	1	11/12/09	11/21/09	JWG0903787	
Methyl Parathion	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
Di-n-butyl Phthalate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Parathion	ND	U	22	1.1	1	11/12/09	11/21/09	JWG0903787	
Methapyrilene	ND	U	5.5	1.7	1	11/12/09	11/21/09	JWG0903787	
Isodrin	ND	U	11	0.78	1	11/12/09	11/21/09	JWG0903787	
Fluoranthene	ND	U	5.5	0.72	1	11/12/09	11/21/09	JWG0903787	
Pyrene	ND	U	5.5	0.92	1	11/12/09	11/21/09	JWG0903787	
Chlorobenzilate	ND	U	11	0.92	1	11/12/09	11/21/09	JWG0903787	
Famphur	ND	UJ	11	0.75	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dimethylbenzidine	ND	U	22	2.5	1	11/12/09	11/21/09	JWG0903787	
p-Dimethylaminoazobenzene	ND	U	5.5	0.97	1	11/12/09	11/21/09	JWG0903787	
Butyl Benzyl Phthalate	ND	U	11	1.2	1	11/12/09	11/21/09	JWG0903787	
2-Acetylaminofluorene	ND	U	5.5	0.98	1	11/12/09	11/21/09	JWG0903787	
Kepone	ND	UJ	55	4.6	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dichlorobenzidine	ND	U	22	0.97	1	11/12/09	11/21/09	JWG0903787	
Benz(a)anthracene	ND	U	5.5	0.94	1	11/12/09	11/21/09	JWG0903787	
Chrysene	ND	U	5.5	0.95	1	11/12/09	11/21/09	JWG0903787	
Bis(2-ethylhexyl) Phthalate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-4
Lab Code: J0905605-004

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Di-n-octyl Phthalate	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Benzo(b)fluoranthene	ND	U	5.5	0.95	1	11/12/09	11/21/09	JWG0903787	
Benzo(k)fluoranthene	ND	U	5.5	0.59	1	11/12/09	11/21/09	JWG0903787	
7,12-Dimethylbenz(a)anthracene	ND	U	5.5	0.95	1	11/12/09	11/21/09	JWG0903787	
Benzo(a)pyrene	ND	U	5.5	0.69	1	11/12/09	11/21/09	JWG0903787	
3-Methylcholanthrene	ND	U	5.5	1.1	1	11/12/09	11/21/09	JWG0903787	
Indeno(1,2,3-cd)pyrene	ND	U	5.5	0.60	1	11/12/09	11/21/09	JWG0903787	
Dibenz(a,h)anthracene	ND	U	5.5	0.68	1	11/12/09	11/21/09	JWG0903787	
Benzo(g,h,i)perylene	ND	U	5.5	0.99	1	11/12/09	11/21/09	JWG0903787	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	26	10-77	11/21/09	Acceptable
Phenol-d6	25	10-51	11/21/09	Acceptable
Nitrobenzene-d5	52	32-106	11/21/09	Acceptable
2-Fluorobiphenyl	38	30-102	11/21/09	Acceptable
2,4,6-Tribromophenol	47	30-143	11/21/09	Acceptable
Terphenyl-d14	26	23-165	11/25/09	Acceptable

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-5
Lab Code: J0905605-005

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.9	0.85	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosomethylethylamine	ND	U	5.9	0.96	1	11/12/09	11/21/09	JWG0903787	
Methyl Methanesulfonate	ND	U	5.9	0.66	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodiethylamine	ND	U	5.9	0.74	1	11/12/09	11/21/09	JWG0903787	
Ethyl Methanesulfonate	ND	U	5.9	0.76	1	11/12/09	11/21/09	JWG0903787	
Phenol	ND	U	5.9	0.49	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroethyl) Ether	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
2-Chlorophenol	ND	U	5.9	0.88	1	11/12/09	11/21/09	JWG0903787	
1,3-Dichlorobenzene	ND	U	5.9	0.82	1	11/12/09	11/21/09	JWG0903787	
1,4-Dichlorobenzene	**2.6**	I	5.9	1.4	1	11/12/09	11/21/09	JWG0903787	
1,2-Dichlorobenzene	ND	U	5.9	0.87	1	11/12/09	11/21/09	JWG0903787	
Bis(2-chloroisopropyl) Ether	ND	U	5.9	0.67	1	11/12/09	11/21/09	JWG0903787	
Benzyl alcohol	ND	U	5.9	0.81	1	11/12/09	11/21/09	JWG0903787	
2-Methylphenol	ND	U	5.9	0.75	1	11/12/09	11/21/09	JWG0903787	
Acetophenone	ND	U	12	1.6	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopyrrolidine	ND	U	5.9	0.82	1	11/12/09	11/21/09	JWG0903787	
Hexachloroethane	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosodi-n-propylamine	ND	U	5.9	0.80	1	11/12/09	11/21/09	JWG0903787	
o-Toluidine	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
4-Methylphenol†	ND	U	5.9	0.90	1	11/12/09	11/21/09	JWG0903787	
Nitrobenzene	ND	U	5.9	0.85	1	11/12/09	11/21/09	JWG0903787	
N-Nitrosopiperidine	ND	U	5.9	1.9	1	11/12/09	11/21/09	JWG0903787	
Isophorone	ND	U	5.9	0.94	1	11/12/09	11/21/09	JWG0903787	
2-Nitrophenol	ND	U	24	0.70	1	11/12/09	11/21/09	JWG0903787	
2,4-Dimethylphenol	ND	U	5.9	0.92	1	11/12/09	11/21/09	JWG0903787	
O,O,O-Triethyl Phosphorothioate	ND	U	24	0.61	1	11/12/09	11/21/09	JWG0903787	
bis(2-Chloroethoxy)methane	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
2,4-Dichlorophenol	ND	U	5.9	0.59	1	11/12/09	11/21/09	JWG0903787	
1,2,4-Trichlorobenzene	ND	U	5.9	0.91	1	11/12/09	11/21/09	JWG0903787	
Naphthalene	ND	U	5.9	0.92	1	11/12/09	11/21/09	JWG0903787	
2,6-Dichlorophenol	ND	U	12	0.84	1	11/12/09	11/21/09	JWG0903787	
Hexachloropropene	ND	U	5.9	2.3	1	11/12/09	11/21/09	JWG0903787	
4-Chloroaniline	ND	U	5.9	0.62	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobutadiene	ND	U	5.9	0.71	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-5
Lab Code: J0905605-005

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodi-n-butylamine	ND	U	5.9	0.78	1	11/12/09	11/21/09	JWG0903787	
p-Phenylenediamine	ND	UJ	24	1.3	1	11/12/09	11/21/09	JWG0903787	J(3)
4-Chloro-3-methylphenol	ND	U	5.9	0.88	1	11/12/09	11/21/09	JWG0903787	
2-Methylnaphthalene	ND	U	5.9	0.87	1	11/12/09	11/21/09	JWG0903787	
Hexachlorocyclopentadiene	ND	U	5.9	0.48	1	11/12/09	11/21/09	JWG0903787	
1,2,4,5-Tetrachlorobenzene	ND	U	5.9	0.64	1	11/12/09	11/21/09	JWG0903787	
Safrole	ND	U	5.9	0.83	1	11/12/09	11/21/09	JWG0903787	
2,4,6-Trichlorophenol	ND	U	5.9	0.85	1	11/12/09	11/21/09	JWG0903787	
2,4,5-Trichlorophenol	ND	U	5.9	0.76	1	11/12/09	11/21/09	JWG0903787	
Isosafrole	ND	U	5.9	0.88	1	11/12/09	11/21/09	JWG0903787	
2-Chloronaphthalene	ND	U	5.9	0.83	1	11/12/09	11/21/09	JWG0903787	
2-Nitroaniline	ND	U	5.9	0.64	1	11/12/09	11/21/09	JWG0903787	
1,4-Naphthoquinone	ND	UJ	12	1.7	1	11/12/09	11/21/09	JWG0903787	J(3)
1,3-Dinitrobenzene	ND	U	12	1.8	1	11/12/09	11/21/09	JWG0903787	
Acenaphthylene	ND	U	5.9	0.68	1	11/12/09	11/21/09	JWG0903787	
Dimethyl Phthalate	ND	U	5.9	0.89	1	11/12/09	11/21/09	JWG0903787	
2,6-Dinitrotoluene	ND	U	5.9	0.97	1	11/12/09	11/21/09	JWG0903787	
Acenaphthene	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
3-Nitroaniline	ND	U	5.9	0.88	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrophenol	ND	U	24	0.63	1	11/12/09	11/21/09	JWG0903787	
Pentachlorobenzene	ND	U	5.9	2.8	1	11/12/09	11/21/09	JWG0903787	
Dibenzofuran	ND	U	5.9	0.92	1	11/12/09	11/21/09	JWG0903787	
4-Nitrophenol	ND	U	24	1.1	1	11/12/09	11/21/09	JWG0903787	
2,4-Dinitrotoluene	ND	U	5.9	4.8	1	11/12/09	11/21/09	JWG0903787	
2-Naphthylamine	ND	U	5.9	1.3	1	11/12/09	11/21/09	JWG0903787	
2,3,4,6-Tetrachlorophenol	ND	U	5.9	1.4	1	11/12/09	11/21/09	JWG0903787	
1-Naphthylamine	ND	U	5.9	1.3	1	11/12/09	11/21/09	JWG0903787	
Fluorene	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
4-Chlorophenyl Phenyl Ether	ND	U	5.9	0.71	1	11/12/09	11/21/09	JWG0903787	
Thionazin	ND	U	12	0.95	1	11/12/09	11/21/09	JWG0903787	
Diethyl Phthalate	ND	U	5.9	4.8	1	11/12/09	11/21/09	JWG0903787	
5-Nitro-o-toluidine	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
4-Nitroaniline	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
2-Methyl-4,6-dinitrophenol	ND	U	24	0.75	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-5
Lab Code: J0905605-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
Diallate	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
Phorate	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
1,3,5-Trinitrobenzene	ND	U	5.9	1.3	1	11/12/09	11/21/09	JWG0903787	
4-Bromophenyl Phenyl Ether	ND	U	5.9	0.78	1	11/12/09	11/21/09	JWG0903787	
Phenacetin	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
Hexachlorobenzene	ND	U	5.9	0.74	1	11/12/09	11/21/09	JWG0903787	
Dimethoate	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
4-Aminobiphenyl	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
Pentachlorophenol	ND	U	24	0.78	1	11/12/09	11/21/09	JWG0903787	
Pentachloronitrobenzene	ND	U	5.9	1.8	1	11/12/09	11/21/09	JWG0903787	
Pronamide	ND	U	24	0.99	1	11/12/09	11/21/09	JWG0903787	
Phenanthrene	ND	U	5.9	0.82	1	11/12/09	11/21/09	JWG0903787	
Disulfoton	ND	U	5.9	0.61	1	11/12/09	11/21/09	JWG0903787	
Dinoseb	ND	U	5.9	0.71	1	11/12/09	11/21/09	JWG0903787	
Anthracene	ND	U	5.9	0.83	1	11/12/09	11/21/09	JWG0903787	
Methyl Parathion	ND	U	12	1.3	1	11/12/09	11/21/09	JWG0903787	
Di-n-butyl Phthalate	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
Parathion	ND	U	24	1.1	1	11/12/09	11/21/09	JWG0903787	
Methapyrilene	ND	U	5.9	1.8	1	11/12/09	11/21/09	JWG0903787	
Isodrin	ND	U	12	0.83	1	11/12/09	11/21/09	JWG0903787	
Fluoranthene	ND	U	5.9	0.77	1	11/12/09	11/21/09	JWG0903787	
Pyrene	ND	U	5.9	0.98	1	11/12/09	11/21/09	JWG0903787	
Chlorobenzilate	ND	U	12	0.98	1	11/12/09	11/21/09	JWG0903787	
Famphur	ND	UJ	12	0.81	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dimethylbenzidine	ND	U	24	2.7	1	11/12/09	11/21/09	JWG0903787	
p-Dimethylaminoazobenzene	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
Butyl Benzyl Phthalate	ND	U	12	1.3	1	11/12/09	11/21/09	JWG0903787	
2-Acetylaminofluorene	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
Kepone	ND	UJ	59	4.9	1	11/12/09	11/21/09	JWG0903787	J(3)
3,3'-Dichlorobenzidine	**4.2**	I	24	1.1	1	11/12/09	11/21/09	JWG0903787	
Benz(a)anthracene	ND	U	5.9	1.0	1	11/12/09	11/21/09	JWG0903787	
Chrysene	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
Bis(2-ethylhexyl) Phthalate	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-5
Lab Code: J0905605-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Di-n-octyl Phthalate	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
Benzo(b)fluoranthene	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
Benzo(k)fluoranthene	ND	U	5.9	0.63	1	11/12/09	11/21/09	JWG0903787	
7,12-Dimethylbenz(a)anthracene	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	
Benzo(a)pyrene	ND	U	5.9	0.74	1	11/12/09	11/21/09	JWG0903787	
3-Methylcholanthrene	ND	U	5.9	1.2	1	11/12/09	11/21/09	JWG0903787	
Indeno(1,2,3-cd)pyrene	ND	U	5.9	0.64	1	11/12/09	11/21/09	JWG0903787	
Dibenz(a,h)anthracene	ND	U	5.9	0.73	1	11/12/09	11/21/09	JWG0903787	
Benzo(g,h,i)perylene	ND	U	5.9	1.1	1	11/12/09	11/21/09	JWG0903787	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	26	10-77	11/21/09	Acceptable
Phenol-d6	18	10-51	11/25/09	Acceptable
Nitrobenzene-d5	47	32-106	11/21/09	Acceptable
2-Fluorobiphenyl	41	30-102	11/21/09	Acceptable
2,4,6-Tribromophenol	45	30-143	11/21/09	Acceptable
Terphenyl-d14	24	23-165	11/21/09	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-6
Lab Code: J0905605-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	55	8.0	10	11/12/09	11/25/09	JWG0903787	
N-Nitrosomethylethylamine	ND	U	55	9.0	10	11/12/09	11/25/09	JWG0903787	
Methyl Methanesulfonate	ND	U	55	6.1	10	11/12/09	11/25/09	JWG0903787	
N-Nitrosodiethylamine	ND	U	55	6.9	10	11/12/09	11/25/09	JWG0903787	
Ethyl Methanesulfonate	ND	U	55	7.1	10	11/12/09	11/25/09	JWG0903787	
Phenol	**290**		55	4.6	10	11/12/09	11/25/09	JWG0903787	
Bis(2-chloroethyl) Ether	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
2-Chlorophenol	ND	U	55	8.2	10	11/12/09	11/25/09	JWG0903787	
1,3-Dichlorobenzene	ND	U	55	7.7	10	11/12/09	11/25/09	JWG0903787	
1,4-Dichlorobenzene	ND	U	55	14	10	11/12/09	11/25/09	JWG0903787	
1,2-Dichlorobenzene	ND	U	55	8.1	10	11/12/09	11/25/09	JWG0903787	
Bis(2-chloroisopropyl) Ether	ND	U	55	6.2	10	11/12/09	11/25/09	JWG0903787	
Benzyl alcohol	ND	U	55	7.5	10	11/12/09	11/25/09	JWG0903787	
2-Methylphenol	ND	U	55	7.0	10	11/12/09	11/25/09	JWG0903787	
Acetophenone	ND	U	110	15	10	11/12/09	11/25/09	JWG0903787	
N-Nitrosopyrrolidine	ND	U	55	7.7	10	11/12/09	11/25/09	JWG0903787	
Hexachloroethane	ND	U	55	10	10	11/12/09	11/25/09	JWG0903787	
N-Nitrosodi-n-propylamine	ND	U	55	7.4	10	11/12/09	11/25/09	JWG0903787	
o-Toluidine	ND	U	55	9.7	10	11/12/09	11/25/09	JWG0903787	
4-Methylphenol†	**3200**		280	42	50	11/12/09	11/25/09	JWG0903787	
Nitrobenzene	ND	U	55	8.0	10	11/12/09	11/25/09	JWG0903787	
N-Nitrosopiperidine	ND	U	55	18	10	11/12/09	11/25/09	JWG0903787	
Isophorone	ND	U	55	8.7	10	11/12/09	11/25/09	JWG0903787	
2-Nitrophenol	ND	U	220	6.6	10	11/12/09	11/25/09	JWG0903787	
2,4-Dimethylphenol	ND	U	55	8.6	10	11/12/09	11/25/09	JWG0903787	
O,O,O-Triethyl Phosphorothioate	ND	U	220	5.7	10	11/12/09	11/25/09	JWG0903787	
bis(2-Chloroethoxy)methane	**9.9**	I	55	9.7	10	11/12/09	11/25/09	JWG0903787	
2,4-Dichlorophenol	ND	U	55	5.5	10	11/12/09	11/25/09	JWG0903787	
1,2,4-Trichlorobenzene	ND	U	55	8.5	10	11/12/09	11/25/09	JWG0903787	
Naphthalene	ND	U	55	8.6	10	11/12/09	11/25/09	JWG0903787	
2,6-Dichlorophenol	ND	U	110	7.9	10	11/12/09	11/25/09	JWG0903787	
Hexachloropropene	ND	U	55	21	10	11/12/09	11/25/09	JWG0903787	
4-Chloroaniline	ND	U	55	5.8	10	11/12/09	11/25/09	JWG0903787	
Hexachlorobutadiene	ND	U	55	6.7	10	11/12/09	11/25/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-6
Lab Code: J0905605-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodi-n-butylamine	ND	U	55	7.3	10	11/12/09	11/25/09	JWG0903787	
p-Phenylenediamine	ND	U	220	12	10	11/12/09	11/25/09	JWG0903787	
4-Chloro-3-methylphenol	ND	U	55	8.2	10	11/12/09	11/25/09	JWG0903787	
2-Methylnaphthalene	ND	U	55	8.1	10	11/12/09	11/25/09	JWG0903787	
Hexachlorocyclopentadiene	ND	U	55	4.5	10	11/12/09	11/25/09	JWG0903787	
1,2,4,5-Tetrachlorobenzene	ND	U	55	6.0	10	11/12/09	11/25/09	JWG0903787	
Safrole	ND	U	55	7.8	10	11/12/09	11/25/09	JWG0903787	
2,4,6-Trichlorophenol	ND	U	55	8.0	10	11/12/09	11/25/09	JWG0903787	
2,4,5-Trichlorophenol	ND	U	55	7.1	10	11/12/09	11/25/09	JWG0903787	
Isosafrole	ND	U	55	8.2	10	11/12/09	11/25/09	JWG0903787	
2-Chloronaphthalene	ND	U	55	7.8	10	11/12/09	11/25/09	JWG0903787	
2-Nitroaniline	ND	U	55	6.0	10	11/12/09	11/25/09	JWG0903787	
1,4-Naphthoquinone	ND	U	110	16	10	11/12/09	11/25/09	JWG0903787	
1,3-Dinitrobenzene	ND	U	110	17	10	11/12/09	11/25/09	JWG0903787	
Acenaphthylene	ND	U	55	6.4	10	11/12/09	11/25/09	JWG0903787	
Dimethyl Phthalate	ND	U	55	8.3	10	11/12/09	11/25/09	JWG0903787	
2,6-Dinitrotoluene	ND	U	55	9.1	10	11/12/09	11/25/09	JWG0903787	
Acenaphthene	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
3-Nitroaniline	ND	U	55	8.2	10	11/12/09	11/25/09	JWG0903787	
2,4-Dinitrophenol	ND	U	220	5.9	10	11/12/09	11/25/09	JWG0903787	
Pentachlorobenzene	ND	U	55	27	10	11/12/09	11/25/09	JWG0903787	
Dibenzofuran	ND	U	55	8.6	10	11/12/09	11/25/09	JWG0903787	
4-Nitrophenol	ND	U	220	11	10	11/12/09	11/25/09	JWG0903787	
2,4-Dinitrotoluene	ND	U	55	45	10	11/12/09	11/25/09	JWG0903787	
2-Naphthylamine	ND	U	55	12	10	11/12/09	11/25/09	JWG0903787	
2,3,4,6-Tetrachlorophenol	ND	U	55	14	10	11/12/09	11/25/09	JWG0903787	
1-Naphthylamine	ND	U	55	12	10	11/12/09	11/25/09	JWG0903787	
Fluorene	ND	U	55	9.6	10	11/12/09	11/25/09	JWG0903787	
4-Chlorophenyl Phenyl Ether	ND	U	55	6.7	10	11/12/09	11/25/09	JWG0903787	
Thionazin	ND	U	110	8.9	10	11/12/09	11/25/09	JWG0903787	
Diethyl Phthalate	ND	U	55	45	10	11/12/09	11/25/09	JWG0903787	
5-Nitro-o-toluidine	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
4-Nitroaniline	ND	U	55	10	10	11/12/09	11/25/09	JWG0903787	
2-Methyl-4,6-dinitrophenol	ND	U	220	7.0	10	11/12/09	11/25/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: 11/10/2009
Date Received: 11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: L-6
Lab Code: J0905605-006

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
Diallate	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
Phorate	ND	U	55	9.6	10	11/12/09	11/25/09	JWG0903787	
1,3,5-Trinitrobenzene	ND	U	55	12	10	11/12/09	11/25/09	JWG0903787	
4-Bromophenyl Phenyl Ether	ND	U	55	7.3	10	11/12/09	11/25/09	JWG0903787	
Phenacetin	ND	U	55	9.7	10	11/12/09	11/25/09	JWG0903787	
Hexachlorobenzene	ND	U	55	6.9	10	11/12/09	11/25/09	JWG0903787	
Dimethoate	ND	U	55	9.8	10	11/12/09	11/25/09	JWG0903787	
4-Aminobiphenyl	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
Pentachlorophenol	ND	U	220	7.3	10	11/12/09	11/25/09	JWG0903787	
Pentachloronitrobenzene	ND	U	55	17	10	11/12/09	11/25/09	JWG0903787	
Pronamide	ND	U	220	9.3	10	11/12/09	11/25/09	JWG0903787	
Phenanthrene	ND	U	55	7.7	10	11/12/09	11/25/09	JWG0903787	
Disulfoton	ND	U	55	5.7	10	11/12/09	11/25/09	JWG0903787	
Dinoseb	ND	U	55	6.7	10	11/12/09	11/25/09	JWG0903787	
Anthracene	ND	U	55	7.8	10	11/12/09	11/25/09	JWG0903787	
Methyl Parathion	ND	U	110	12	10	11/12/09	11/25/09	JWG0903787	
Di-n-butyl Phthalate	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
Parathion	ND	U	220	11	10	11/12/09	11/25/09	JWG0903787	
Methapyrilene	ND	U	55	17	10	11/12/09	11/25/09	JWG0903787	
Isodrin	ND	U	110	7.8	10	11/12/09	11/25/09	JWG0903787	
Fluoranthene	ND	U	55	7.2	10	11/12/09	11/25/09	JWG0903787	
Pyrene	ND	U	55	9.2	10	11/12/09	11/25/09	JWG0903787	
Chlorobenzilate	ND	U	110	9.2	10	11/12/09	11/25/09	JWG0903787	
3,3'-Dimethylbenzidine	ND	U	220	26	10	11/12/09	11/25/09	JWG0903787	
Famphur	ND	U	110	7.5	10	11/12/09	11/25/09	JWG0903787	
p-Dimethylaminoazobenzene	ND	U	55	9.7	10	11/12/09	11/25/09	JWG0903787	
Butyl Benzyl Phthalate	ND	U	110	12	10	11/12/09	11/25/09	JWG0903787	
2-Acetylaminofluorene	ND	U	55	9.8	10	11/12/09	11/25/09	JWG0903787	
Kepone	ND	UJ	550	46	10	11/12/09	11/25/09	JWG0903787	J(3)
3,3'-Dichlorobenzidine	ND	U	220	9.7	10	11/12/09	11/25/09	JWG0903787	
Benz(a)anthracene	ND	U	55	9.4	10	11/12/09	11/25/09	JWG0903787	
Chrysene	ND	U	55	9.5	10	11/12/09	11/25/09	JWG0903787	
Bis(2-ethylhexyl) Phthalate	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905605
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name:	L-6	**Units:**	ug/L
Lab Code:	J0905605-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Di-n-octyl Phthalate	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
Benzo(b)fluoranthene	ND	U	55	9.5	10	11/12/09	11/25/09	JWG0903787	
Benzo(k)fluoranthene	ND	U	55	5.9	10	11/12/09	11/25/09	JWG0903787	
7,12-Dimethylbenz(a)anthracene	ND	U	55	9.5	10	11/12/09	11/25/09	JWG0903787	
Benzo(a)pyrene	ND	U	55	6.9	10	11/12/09	11/25/09	JWG0903787	
3-Methylcholanthrene	ND	U	55	11	10	11/12/09	11/25/09	JWG0903787	
Indeno(1,2,3-cd)pyrene	ND	U	55	6.0	10	11/12/09	11/25/09	JWG0903787	
Dibenz(a,h)anthracene	ND	U	55	6.8	10	11/12/09	11/25/09	JWG0903787	
Benzo(g,h,i)perylene	ND	U	55	9.9	10	11/12/09	11/25/09	JWG0903787	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	31	10-77	11/25/09	Acceptable
Phenol-d6	29	10-51	11/25/09	Acceptable
Nitrobenzene-d5	62	32-106	11/25/09	Acceptable
2-Fluorobiphenyl	52	30-102	11/25/09	Acceptable
2,4,6-Tribromophenol	50	30-143	11/25/09	Acceptable
Terphenyl-d14	34	23-165	11/25/09	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903787-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	5.0	0.73	1	11/12/09	11/17/09	JWG0903787	
N-Nitrosomethylethylamine	ND	U	5.0	0.82	1	11/12/09	11/17/09	JWG0903787	
Methyl Methanesulfonate	ND	U	5.0	0.56	1	11/12/09	11/17/09	JWG0903787	
N-Nitrosodiethylamine	ND	U	5.0	0.63	1	11/12/09	11/17/09	JWG0903787	
Ethyl Methanesulfonate	ND	U	5.0	0.65	1	11/12/09	11/17/09	JWG0903787	
Phenol	ND	U	5.0	0.42	1	11/12/09	11/17/09	JWG0903787	
Bis(2-chloroethyl) Ether	ND	U	5.0	0.96	1	11/12/09	11/17/09	JWG0903787	
2-Chlorophenol	ND	U	5.0	0.75	1	11/12/09	11/17/09	JWG0903787	
1,3-Dichlorobenzene	ND	U	5.0	0.70	1	11/12/09	11/17/09	JWG0903787	
1,4-Dichlorobenzene	ND	U	5.0	1.2	1	11/12/09	11/17/09	JWG0903787	
1,2-Dichlorobenzene	ND	U	5.0	0.74	1	11/12/09	11/17/09	JWG0903787	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	0.57	1	11/12/09	11/17/09	JWG0903787	
Benzyl alcohol	**0.99**	I	5.0	0.69	1	11/12/09	11/17/09	JWG0903787	
2-Methylphenol	ND	U	5.0	0.64	1	11/12/09	11/17/09	JWG0903787	
Acetophenone	ND	U	10	1.3	1	11/12/09	11/17/09	JWG0903787	
N-Nitrosopyrrolidine	ND	U	5.0	0.70	1	11/12/09	11/17/09	JWG0903787	
Hexachloroethane	ND	U	5.0	0.92	1	11/12/09	11/17/09	JWG0903787	
N-Nitrosodi-n-propylamine	ND	U	5.0	0.68	1	11/12/09	11/17/09	JWG0903787	
o-Toluidine	ND	U	5.0	0.89	1	11/12/09	11/17/09	JWG0903787	
4-Methylphenol†	ND	U	5.0	0.77	1	11/12/09	11/17/09	JWG0903787	
Nitrobenzene	ND	U	5.0	0.73	1	11/12/09	11/17/09	JWG0903787	
N-Nitrosopiperidine	ND	U	5.0	1.6	1	11/12/09	11/17/09	JWG0903787	
Isophorone	ND	U	5.0	0.80	1	11/12/09	11/17/09	JWG0903787	
2-Nitrophenol	ND	U	20	0.60	1	11/12/09	11/17/09	JWG0903787	
2,4-Dimethylphenol	ND	U	5.0	0.79	1	11/12/09	11/17/09	JWG0903787	
O,O,O-Triethyl Phosphorothioate	ND	U	20	0.52	1	11/12/09	11/17/09	JWG0903787	
bis(2-Chloroethoxy)methane	ND	U	5.0	0.89	1	11/12/09	11/17/09	JWG0903787	
2,4-Dichlorophenol	ND	U	5.0	0.50	1	11/12/09	11/17/09	JWG0903787	
1,2,4-Trichlorobenzene	ND	U	5.0	0.78	1	11/12/09	11/17/09	JWG0903787	
Naphthalene	ND	U	5.0	0.79	1	11/12/09	11/17/09	JWG0903787	
2,6-Dichlorophenol	ND	U	10	0.72	1	11/12/09	11/17/09	JWG0903787	
Hexachloropropene	ND	U	5.0	1.9	1	11/12/09	11/17/09	JWG0903787	
4-Chloroaniline	ND	U	5.0	0.53	1	11/12/09	11/17/09	JWG0903787	
Hexachlorobutadiene	ND	U	5.0	0.61	1	11/12/09	11/17/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903787-4

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodi-n-butylamine	ND	U	5.0	0.67	1	11/12/09	11/17/09	JWG0903787	
p-Phenylenediamine	ND	U	20	1.1	1	11/12/09	11/17/09	JWG0903787	
4-Chloro-3-methylphenol	ND	U	5.0	0.75	1	11/12/09	11/17/09	JWG0903787	
2-Methylnaphthalene	ND	U	5.0	0.74	1	11/12/09	11/17/09	JWG0903787	
Hexachlorocyclopentadiene	ND	U	5.0	0.41	1	11/12/09	11/17/09	JWG0903787	
1,2,4,5-Tetrachlorobenzene	ND	U	5.0	0.55	1	11/12/09	11/17/09	JWG0903787	
Safrole	ND	U	5.0	0.71	1	11/12/09	11/17/09	JWG0903787	
2,4,6-Trichlorophenol	ND	U	5.0	0.73	1	11/12/09	11/17/09	JWG0903787	
2,4,5-Trichlorophenol	ND	U	5.0	0.65	1	11/12/09	11/17/09	JWG0903787	
Isosafrole	ND	U	5.0	0.75	1	11/12/09	11/17/09	JWG0903787	
2-Chloronaphthalene	ND	U	5.0	0.71	1	11/12/09	11/17/09	JWG0903787	
2-Nitroaniline	ND	U	5.0	0.55	1	11/12/09	11/17/09	JWG0903787	
1,4-Naphthoquinone	ND	U	10	1.4	1	11/12/09	11/17/09	JWG0903787	
1,3-Dinitrobenzene	ND	U	10	1.5	1	11/12/09	11/17/09	JWG0903787	
Acenaphthylene	ND	U	5.0	0.58	1	11/12/09	11/17/09	JWG0903787	
Dimethyl Phthalate	ND	U	5.0	0.76	1	11/12/09	11/17/09	JWG0903787	
2,6-Dinitrotoluene	ND	U	5.0	0.83	1	11/12/09	11/17/09	JWG0903787	
Acenaphthene	ND	U	5.0	0.99	1	11/12/09	11/17/09	JWG0903787	
3-Nitroaniline	ND	U	5.0	0.75	1	11/12/09	11/17/09	JWG0903787	
2,4-Dinitrophenol	ND	U	20	0.54	1	11/12/09	11/17/09	JWG0903787	
Pentachlorobenzene	ND	U	5.0	2.4	1	11/12/09	11/17/09	JWG0903787	
Dibenzofuran	ND	U	5.0	0.79	1	11/12/09	11/17/09	JWG0903787	
4-Nitrophenol	ND	U	20	0.93	1	11/12/09	11/17/09	JWG0903787	
2,4-Dinitrotoluene	ND	U	5.0	4.1	1	11/12/09	11/17/09	JWG0903787	
2-Naphthylamine	ND	U	5.0	1.1	1	11/12/09	11/17/09	JWG0903787	
2,3,4,6-Tetrachlorophenol	ND	U	5.0	1.2	1	11/12/09	11/17/09	JWG0903787	
1-Naphthylamine	ND	U	5.0	1.1	1	11/12/09	11/17/09	JWG0903787	
Fluorene	ND	U	5.0	0.88	1	11/12/09	11/17/09	JWG0903787	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	0.61	1	11/12/09	11/17/09	JWG0903787	
Thionazin	ND	U	10	0.81	1	11/12/09	11/17/09	JWG0903787	
Diethyl Phthalate	ND	U	5.0	4.1	1	11/12/09	11/17/09	JWG0903787	
5-Nitro-o-toluidine	ND	U	5.0	1.0	1	11/12/09	11/17/09	JWG0903787	
4-Nitroaniline	ND	U	5.0	0.92	1	11/12/09	11/17/09	JWG0903787	
2-Methyl-4,6-dinitrophenol	ND	U	20	0.64	1	11/12/09	11/17/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903787-4

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.0	0.96	1	11/12/09	11/17/09	JWG0903787	
Diallate	ND	U	5.0	1.0	1	11/12/09	11/17/09	JWG0903787	
Phorate	ND	U	5.0	0.88	1	11/12/09	11/17/09	JWG0903787	
1,3,5-Trinitrobenzene	ND	U	5.0	1.1	1	11/12/09	11/17/09	JWG0903787	
4-Bromophenyl Phenyl Ether	ND	U	5.0	0.67	1	11/12/09	11/17/09	JWG0903787	
Phenacetin	ND	U	5.0	0.89	1	11/12/09	11/17/09	JWG0903787	
Hexachlorobenzene	ND	U	5.0	0.63	1	11/12/09	11/17/09	JWG0903787	
Dimethoate	ND	U	5.0	0.90	1	11/12/09	11/17/09	JWG0903787	
4-Aminobiphenyl	ND	U	5.0	0.99	1	11/12/09	11/17/09	JWG0903787	
Pentachlorophenol	ND	U	20	0.67	1	11/12/09	11/17/09	JWG0903787	
Pentachloronitrobenzene	ND	U	5.0	1.5	1	11/12/09	11/17/09	JWG0903787	
Pronamide	ND	U	20	0.85	1	11/12/09	11/17/09	JWG0903787	
Phenanthrene	ND	U	5.0	0.70	1	11/12/09	11/17/09	JWG0903787	
Disulfoton	ND	U	5.0	0.52	1	11/12/09	11/17/09	JWG0903787	
Dinoseb	ND	U	5.0	0.61	1	11/12/09	11/17/09	JWG0903787	
Anthracene	ND	U	5.0	0.71	1	11/12/09	11/17/09	JWG0903787	
Methyl Parathion	ND	U	10	1.1	1	11/12/09	11/17/09	JWG0903787	
Di-n-butyl Phthalate	ND	U	5.0	0.97	1	11/12/09	11/17/09	JWG0903787	
Parathion	ND	U	20	0.93	1	11/12/09	11/17/09	JWG0903787	
Methapyrilene	ND	U	5.0	1.5	1	11/12/09	11/17/09	JWG0903787	
Isodrin	ND	U	10	0.71	1	11/12/09	11/17/09	JWG0903787	
Fluoranthene	ND	U	5.0	0.66	1	11/12/09	11/17/09	JWG0903787	
Pyrene	ND	U	5.0	0.84	1	11/12/09	11/17/09	JWG0903787	
Chlorobenzilate	ND	U	10	0.84	1	11/12/09	11/17/09	JWG0903787	
3,3'-Dimethylbenzidine	ND	UJ	20	2.3	1	11/12/09	11/17/09	JWG0903787	J(3)
Famphur	ND	U	10	0.69	1	11/12/09	11/17/09	JWG0903787	
p-Dimethylaminoazobenzene	ND	U	5.0	0.89	1	11/12/09	11/17/09	JWG0903787	
Butyl Benzyl Phthalate	ND	U	10	1.1	1	11/12/09	11/17/09	JWG0903787	
2-Acetylaminofluorene	ND	U	5.0	0.90	1	11/12/09	11/17/09	JWG0903787	
Kepone	ND	UJ	50	4.2	1	11/12/09	11/17/09	JWG0903787	J(3)
3,3'-Dichlorobenzidine	ND	U	20	0.89	1	11/12/09	11/17/09	JWG0903787	
Benz(a)anthracene	ND	U	5.0	0.86	1	11/12/09	11/17/09	JWG0903787	
Chrysene	ND	U	5.0	0.87	1	11/12/09	11/17/09	JWG0903787	
Bis(2-ethylhexyl) Phthalate	ND	U	5.0	0.98	1	11/12/09	11/17/09	JWG0903787	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905605
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS (Appendix II)

Sample Name: Method Blank
Lab Code: JWG0903787-4

Extraction Method: EPA 3510C
Analysis Method: 8270C

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Di-n-octyl Phthalate	ND	U	5.0	0.95	1	11/12/09	11/17/09	JWG0903787	
Benzo(b)fluoranthene	ND	U	5.0	0.87	1	11/12/09	11/17/09	JWG0903787	
Benzo(k)fluoranthene	ND	U	5.0	0.54	1	11/12/09	11/17/09	JWG0903787	
7,12-Dimethylbenz(a)anthracene	ND	U	5.0	0.87	1	11/12/09	11/17/09	JWG0903787	
Benzo(a)pyrene	ND	U	5.0	0.63	1	11/12/09	11/17/09	JWG0903787	
3-Methylcholanthrene	ND	U	5.0	0.97	1	11/12/09	11/17/09	JWG0903787	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	0.55	1	11/12/09	11/17/09	JWG0903787	
Dibenz(a,h)anthracene	ND	U	5.0	0.62	1	11/12/09	11/17/09	JWG0903787	
Benzo(g,h,i)perylene	ND	U	5.0	0.91	1	11/12/09	11/17/09	JWG0903787	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	34	10-77	11/17/09	Acceptable
Phenol-d6	19	10-51	11/17/09	Acceptable
Nitrobenzene-d5	56	32-106	11/17/09	Acceptable
2-Fluorobiphenyl	63	30-102	11/17/09	Acceptable
2,4,6-Tribromophenol	86	30-143	11/17/09	Acceptable
Terphenyl-d14	86	23-165	11/17/09	Acceptable

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

Columbia Analytical Services™ 9143 Philips Hwy, Suite 200 | Jacksonville, FL 32256 | 904.739.2277 | 904.739.2011 fax | www.caslab.com

November 30, 2009

Service Request No: J0905604

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A.02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on November 11, 2009. For your reference, these analyses have been assigned our service request number **J0905604**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

100% Recycled Paper

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0905604
Project:	JED SWDF	**Date Received:**	11/11/09
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Two water samples and one trip blank were received for analysis at Columbia Analytical Services on 11/11/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile organics using EPA Method 8260. The following observations were made regarding this delivery group.

Continuing Calibration Verification Exceptions

The primary evaluation criterion was exceeded for the following analyte in Continuing Calibration Verification (CCV) JWG0903815-2: trans-1,4-Dichloro-2-butene. The analyte in question was not detected in the associated field samples. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of Vinyl Chloride, Bromomethane, Bromoform and trans-1,4-Dichloro-2-butene for sample MW-23A were outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Lab Control Sample Exceptions

The spike recoveries of Bromoform and trans-1,4-Dichloro-2-butene for Laboratory Control Sample (LCS) JWG0903816-3 were outside the lower control criterion. The analytes in question were not detected in the associated field samples. Since the analytes were detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. No problems were observed.

Approved by _____ **Date** 11/30/09

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for some parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 11/30/09

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02

Service Request: J0905604

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0905604-001	MW-23A	11/10/09	08:45
J0905604-002	MW-23C	11/10/09	09:25
J0905604-003	Trip Blank	11/10/09	00:00

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/2009
Date Received: 11/11/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23A
Lab Code: J0905604-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903816	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903816	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903816	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903816	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903816	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903816	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903816	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903816	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903816	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903816	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903816	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903816	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903816	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903816	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903816	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903816	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903816	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/2009
Date Received: 11/11/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23A
Lab Code: J0905604-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903816	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903816	
Bromoform	ND	UJ	2.0	0.12	1	11/14/09	11/14/09	JWG0903816	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903816	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
trans-1,4-Dichloro-2-butene	ND	UJ	20	1.1	1	11/14/09	11/14/09	JWG0903816	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903816	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	117	75-120	11/14/09	Acceptable
Dibromofluoromethane	97	82-116	11/14/09	Acceptable
Toluene-d8	102	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/2009
Date Received: 11/11/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23C
Lab Code: J0905604-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903816	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903816	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903816	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903816	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903816	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903816	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903816	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903816	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903816	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903816	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903816	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903816	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903816	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903816	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903816	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903816	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903816	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/2009
Date Received: 11/11/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23C
Lab Code: J0905604-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903816	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903816	
Bromoform	ND	UJ	2.0	0.12	1	11/14/09	11/14/09	JWG0903816	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903816	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
trans-1,4-Dichloro-2-butene	ND	UJ	20	1.1	1	11/14/09	11/14/09	JWG0903816	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903816	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	87	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	119	75-120	11/14/09	Acceptable
Dibromofluoromethane	95	82-116	11/14/09	Acceptable
Toluene-d8	103	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/2009
Date Received: 11/11/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905604-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903816	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903816	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903816	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903816	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903816	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903816	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903816	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903816	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903816	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903816	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903816	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903816	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903816	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903816	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903816	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903816	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903816	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/2009
Date Received: 11/11/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905604-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903816	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903816	
Bromoform	ND	UJ	2.0	0.12	1	11/14/09	11/14/09	JWG0903816	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903816	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
trans-1,4-Dichloro-2-butene	ND	UJ	20	1.1	1	11/14/09	11/14/09	JWG0903816	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903816	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	119	75-120	11/14/09	Acceptable
Dibromofluoromethane	96	82-116	11/14/09	Acceptable
Toluene-d8	104	88-117	11/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903816-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903816	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903816	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903816	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903816	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903816	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903816	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903816	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903816	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903816	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903816	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903816	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903816	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903816	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903816	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903816	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903816	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903816	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903816	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903816	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903816	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903816	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903816	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903816-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903816	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903816	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903816	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903816	
Bromoform	ND	UJ	2.0	0.12	1	11/14/09	11/14/09	JWG0903816	J(3)
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903816	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903816	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903816	
trans-1,4-Dichloro-2-butene	ND	UJ	20	1.1	1	11/14/09	11/14/09	JWG0903816	J(3)
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903816	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903816	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	88	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	117	75-120	11/14/09	Acceptable
Dibromofluoromethane	94	82-116	11/14/09	Acceptable
Toluene-d8	105	88-117	11/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905604
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-23A	**Units:**	ug/L
Lab Code:	J0905604-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	106	77-150	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905604
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/10/2009
Sample Matrix:	Water	**Date Received:**	11/11/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-23C	**Units:**	ug/L
Lab Code:	J0905604-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	108	77-150	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905604
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0903823-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/15/09	11/18/09	JWG0903823	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/15/09	11/18/09	JWG0903823	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	11/18/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/09 0845
Date Received: 11/11/09

Sample Name: MW-23A
Lab Code: J0905604-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/17/09	11/23/09 16:21
Arsenic, Total	6020	**0.49**	I	µg/L	0.50	0.20	1	11/17/09	11/23/09 16:21
Barium, Total	6020	**24.0**		µg/L	2.0	0.5	1	11/17/09	11/23/09 16:21
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/24/09 13:25
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/17/09	11/23/09 16:21
Chromium, Total	6020	**2.4**		µg/L	2.0	0.8	1	11/17/09	11/23/09 16:21
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/23/09 16:21
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/17/09	11/23/09 16:21
Iron, Total	6010B	**2950**		µg/L	50	4	1	11/12/09	11/12/09 20:41
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/24/09 13:25
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:39
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/17/09	11/23/09 16:21
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/17/09	11/23/09 16:21
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/17/09	11/23/09 16:21
Sodium, Total	6010B	**14.8**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:41
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/24/09 13:25
Vanadium, Total	6020	**3.1**	I	µg/L	5.0	1.2	1	11/17/09	11/23/09 16:21
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/17/09	11/23/09 16:21

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Collected: 11/10/09 0925
Date Received: 11/11/09

Sample Name: MW-23C
Lab Code: J0905604-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/17/09	11/23/09 16:27
Arsenic, Total	6020	**0.27**	I	µg/L	0.50	0.20	1	11/17/09	11/23/09 16:27
Barium, Total	6020	**9.9**		µg/L	2.0	0.5	1	11/17/09	11/23/09 16:27
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/24/09 13:30
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/17/09	11/23/09 16:27
Chromium, Total	6020	**3.3**		µg/L	2.0	0.8	1	11/17/09	11/23/09 16:27
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/23/09 16:27
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/17/09	11/23/09 16:27
Iron, Total	6010B	**495**		µg/L	50	4	1	11/12/09	11/12/09 20:45
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	11/17/09	11/24/09 13:30
Mercury, Total	7470A	**0.12**	I	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:40
Nickel, Total	6020	**1.0**	I	µg/L	2.0	0.3	1	11/17/09	11/23/09 16:27
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/17/09	11/23/09 16:27
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/17/09	11/23/09 16:27
Sodium, Total	6010B	**5.04**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:44
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/24/09 13:30
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/17/09	11/23/09 16:27
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/17/09	11/23/09 16:27

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: J0905604-MB

Service Request: J0905604
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/17/09	11/19/09 04:57
Arsenic, Total	6020	**0.20**	I	µg/L	0.50	0.20	1	11/17/09	11/19/09 04:57
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	11/17/09	11/19/09 04:57
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/17/09	11/19/09 04:57
Chromium, Total	6020	**1.7**	I	µg/L	2.0	0.8	1	11/17/09	11/23/09 19:30
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/17/09	11/19/09 04:57
Iron, Total	6010B	**6**	I	µg/L	50	4	1	11/12/09	11/12/09 19:31
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:08
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/17/09	11/19/09 04:57
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/17/09	11/19/09 04:57
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/17/09	11/19/09 04:57
Sodium, Total	6010B	**0.03**	I	mg/L	0.50	0.02	1	11/12/09	11/12/09 19:30
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/17/09	11/19/09 04:57
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	11/17/09	11/19/09 04:57
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/17/09	11/19/09 04:57

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905604
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : MW-23A
Lab Code : J0905604-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	1.4	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/11/09 15:30	41	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 20:15	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	220	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905604
Date Collected : 11/10/09
Date Received : 11/11/09

Inorganic Parameters

Sample Name : MW-23C
Lab Code : J0905604-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	0.074	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/11/09 15:30	8.8	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 20:30	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	69	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905604
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0905604-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/11/09 15:30	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/11/09 15:30	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 15:30	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	U	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-23A	J0905604-001	90	117	97	102
MW-23C	J0905604-002	87	119	95	103
Trip Blank	J0905604-003	90	119	96	104
Method Blank	JWG0903816-4	88	117	94	105
MW-23AMS	JWG0903816-1	91	115	98	101
MW-23ADMS	JWG0903816-2	92	111	93	103
Lab Control Sample	JWG0903816-3	88	112	94	103

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	71-122
Sur2 = 4-Bromofluorobenzene	75-120
Sur3 = Dibromofluoromethane	82-116
Sur4 = Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Extracted: 11/14/2009
Date Analyzed: 11/14/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23A
Lab Code: J0905604-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0903816

Analyte Name	Sample Result	MW-23AMS JWG0903816-1 Matrix Spike			MW-23ADMS JWG0903816-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Chloromethane	ND	15.6	20.0	78	15.8	20.0	79	73-139	1	30
Vinyl Chloride	ND	15.1	20.0	76 *	15.9	20.0	80	78-141	5	30
Bromomethane	ND	15.2	20.0	76 *	16.2	20.0	81	78-129	6	30
Chloroethane	ND	18.6	20.0	93	17.7	20.0	88	76-129	5	30
Trichlorofluoromethane	ND	16.5	20.0	83	16.3	20.0	82	81-133	1	30
1,1-Dichloroethene	ND	17.6	20.0	88	18.3	20.0	91	79-133	4	30
Acetone	ND	87.0	100	87	87.8	100	88	56-139	1	30
Iodomethane (Methyl Iodide)	ND	99.4	100	99	95.9	100	96	74-134	4	30
Carbon Disulfide	ND	83.7	100	84	85.3	100	85	71-146	2	30
Methylene Chloride	ND	21.0	20.0	105	20.9	20.0	104	75-123	1	30
trans-1,2-Dichloroethene	ND	18.9	20.0	95	19.5	20.0	98	76-125	3	30
Acrylonitrile	ND	89.0	100	89	90.9	100	91	68-131	2	30
1,1-Dichloroethane	ND	19.1	20.0	96	19.8	20.0	99	78-125	4	30
Vinyl Acetate	ND	87.7	100	88	92.1	100	92	43-163	5	30
cis-1,2-Dichloroethene	ND	20.3	20.0	102	20.1	20.0	101	75-127	1	30
2-Butanone (MEK)	ND	87.5	100	88	83.3	100	83	63-134	5	30
Bromochloromethane	ND	21.0	20.0	105	20.2	20.0	101	80-124	4	30
Chloroform	ND	20.3	20.0	102	20.4	20.0	102	81-124	0	30
1,1,1-Trichloroethane (TCA)	ND	18.3	20.0	91	18.3	20.0	91	76-130	0	30
Carbon Tetrachloride	ND	16.4	20.0	82	16.4	20.0	82	76-131	0	30
Benzene	ND	19.6	20.0	98	19.2	20.0	96	78-123	2	30
1,2-Dichloroethane (EDC)	ND	20.5	20.0	103	20.6	20.0	103	74-126	0	30
Trichloroethene (TCE)	ND	18.7	20.0	94	18.8	20.0	94	77-128	0	30
1,2-Dichloropropane	ND	20.6	20.0	103	20.5	20.0	102	77-122	1	30
Dibromomethane	ND	19.6	20.0	98	19.3	20.0	96	78-124	1	30
Bromodichloromethane	ND	19.7	20.0	99	19.4	20.0	97	79-125	2	30
cis-1,3-Dichloropropene	ND	17.8	20.0	89	17.1	20.0	85	77-117	4	30
4-Methyl-2-pentanone (MIBK)	ND	90.0	100	90	92.6	100	93	65-138	3	30
Toluene	ND	19.2	20.0	96	19.4	20.0	97	86-119	1	30
trans-1,3-Dichloropropene	ND	15.3	20.0	76	15.6	20.0	78	75-120	2	30
1,1,2-Trichloroethane	ND	18.4	20.0	92	19.4	20.0	97	77-124	5	30
Tetrachloroethene (PCE)	ND	17.2	20.0	86	17.7	20.0	88	79-123	3	30
2-Hexanone	ND	89.6	100	90	94.9	100	95	63-142	6	30
Dibromochloromethane	ND	16.8	20.0	84	17.9	20.0	89	78-124	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Extracted: 11/14/2009
Date Analyzed: 11/14/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-23A
Lab Code: J0905604-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0903816

Analyte Name	Sample Result	MW-23AMS JWG0903816-1 Matrix Spike			MW-23ADMS JWG0903816-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	18.9	20.0	95	19.0	20.0	95	81-119	0	30
Chlorobenzene	ND	19.2	20.0	96	18.9	20.0	95	81-120	2	30
1,1,1,2-Tetrachloroethane	ND	18.0	20.0	90	18.2	20.0	91	82-118	2	30
Ethylbenzene	ND	18.6	20.0	93	19.2	20.0	96	87-122	3	30
m,p-Xylenes	ND	37.1	40.0	93	38.9	40.0	97	82-120	5	30
o-Xylene	ND	19.2	20.0	96	19.5	20.0	98	85-119	2	30
Styrene	ND	18.7	20.0	93	18.9	20.0	94	84-126	1	30
Bromoform	ND	13.5	20.0	67 *	14.3	20.0	71	70-129	6	30
1,1,2,2-Tetrachloroethane	ND	18.5	20.0	92	18.9	20.0	94	72-127	2	30
1,2,3-Trichloropropane	ND	17.7	20.0	89	17.5	20.0	88	76-123	1	30
1,4-Dichlorobenzene	ND	20.0	20.0	100	19.6	20.0	98	75-115	2	30
trans-1,4-Dichloro-2-butene	ND	ND	20.0	0 *	ND	20.0	0 *	22-135		30
1,2-Dichlorobenzene	ND	19.6	20.0	98	18.7	20.0	93	77-116	5	30
1,2-Dibromo-3-chloropropane (DBCP	ND	14.5	20.0	73	15.3	20.0	76	54-120	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Extracted: 11/14/2009
Date Analyzed: 11/14/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903816

	Lab Control Sample JWG0903816-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	17.7	20.0	89	67-135
Vinyl Chloride	17.8	20.0	89	78-132
Bromomethane	17.2	20.0	86	79-130
Chloroethane	19.3	20.0	97	74-126
Trichlorofluoromethane	20.6	20.0	103	74-134
1,1-Dichloroethene	20.7	20.0	104	78-130
Acetone	91.0	100	91	67-133
Iodomethane (Methyl Iodide)	99.4	100	99	68-134
Carbon Disulfide	92.5	100	92	76-138
Methylene Chloride	20.5	20.0	102	72-124
trans-1,2-Dichloroethene	20.3	20.0	102	77-124
Acrylonitrile	87.1	100	87	77-127
1,1-Dichloroethane	20.4	20.0	102	80-128
Vinyl Acetate	110	100	110	61-148
cis-1,2-Dichloroethene	20.4	20.0	102	80-126
2-Butanone (MEK)	79.7	100	80	73-127
Bromochloromethane	19.5	20.0	97	79-129
Chloroform	19.7	20.0	99	83-124
1,1,1-Trichloroethane (TCA)	20.3	20.0	102	79-124
Carbon Tetrachloride	19.7	20.0	98	81-125
Benzene	19.8	20.0	99	79-119
1,2-Dichloroethane (EDC)	19.5	20.0	97	80-124
Trichloroethene (TCE)	19.2	20.0	96	76-124
1,2-Dichloropropane	19.5	20.0	97	79-123
Dibromomethane	18.7	20.0	94	83-123
Bromodichloromethane	18.7	20.0	94	81-123
cis-1,3-Dichloropropene	18.8	20.0	94	86-123
4-Methyl-2-pentanone (MIBK)	89.4	100	89	72-136
Toluene	20.1	20.0	100	86-117
trans-1,3-Dichloropropene	17.4	20.0	87	83-124
1,1,2-Trichloroethane	18.5	20.0	93	86-114
Tetrachloroethene (PCE)	18.8	20.0	94	80-121
2-Hexanone	91.5	100	91	71-138
Dibromochloromethane	16.6	20.0	83	82-121
1,2-Dibromoethane (EDB)	18.9	20.0	95	88-117
Chlorobenzene	19.1	20.0	95	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Extracted: 11/14/2009
Date Analyzed: 11/14/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903816

Analyte Name	Lab Control Sample JWG0903816-3 Lab Control Spike Result	Expected	%Rec		%Rec Limits
1,1,1,2-Tetrachloroethane	18.4	20.0	92		85-117
Ethylbenzene	19.6	20.0	98		90-118
m,p-Xylenes	38.2	40.0	96		86-121
o-Xylene	19.3	20.0	96		89-119
Styrene	18.8	20.0	94		89-122
Bromoform	13.4	20.0	67	*	68-129
1,1,2,2-Tetrachloroethane	17.6	20.0	88		83-120
1,2,3-Trichloropropane	16.9	20.0	84		83-123
1,4-Dichlorobenzene	19.3	20.0	97		83-113
trans-1,4-Dichloro-2-butene	3.00	20.0	15	*	53-143
1,2-Dichlorobenzene	19.6	20.0	98		84-115
1,2-Dibromo-3-chloropropane (DBCP	15.5	20.0	78		62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-23A	J0905604-001	106
MW-23C	J0905604-002	108
Method Blank	JWG0903823-4	107
MW-23AMS	JWG0903823-1	107
MW-23ADMS	JWG0903823-2	106
Lab Control Sample	JWG0903823-3	110

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Extracted: 11/15/2009
Date Analyzed: 11/18/2009

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-23A
Lab Code: J0905604-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low
Extraction Lot: JWG0903823

Analyte Name	Sample Result	MW-23AMS JWG0903823-1 Matrix Spike			MW-23ADMS JWG0903823-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.250	0.250	100	0.249	0.250	100	65-135	0	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.262	0.250	105	0.255	0.250	102	65-135	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Extracted: 11/15/2009
Date Analyzed: 11/18/2009

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903823

	Lab Control Sample JWG0903823-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.284	0.250	114	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.265	0.250	106	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Analyzed: 11/12/09 - 11/19/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905604-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**47.9**	50.0	96	80 - 120
Arsenic, Total	6020	**49.3**	50.0	99	80 - 120
Barium, Total	6020	**50.2**	50.0	100	80 - 120
Beryllium, Total	6020	**44.1**	50.0	88	80 - 120
Cadmium, Total	6020	**47.3**	50.0	95	80 - 120
Chromium, Total	6020	**52.2**	50.0	104	80 - 120
Cobalt, Total	6020	**53.2**	50.0	106	80 - 120
Copper, Total	6020	**52.7**	50.0	105	80 - 120
Iron, Total	6010B	**1960**	2000	98	80 - 120
Lead, Total	6020	**50.8**	50.0	102	80 - 120
Mercury, Total	7470A	**5.52**	5.00	110	80 - 120
Nickel, Total	6020	**53.0**	50.0	106	80 - 120
Selenium, Total	6020	**45.6**	50.0	91	80 - 120
Silver, Total	6020	**51.2**	50.0	102	80 - 120
Thallium, Total	6020	**50.4**	50.0	101	80 - 120
Vanadium, Total	6020	**51.0**	50.0	102	80 - 120
Zinc, Total	6020	**94.3**	100	94	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905604
Date Analyzed: 11/12/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905604-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**10.3**	10.0	103	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	GeoSyntec Consultants	**Service Request :**	J0905604
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	FQ1512A.02	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	11/11-18/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0905604-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	1.03	103	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.11	102	90-110	
Chloride	mg/L (ppm)	300.0	100	101	101	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.01	100	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	291	97	85-115	

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosyntec Service Request # J0905604

Project: JED SWDF

Cooler received on 11/4/09 and opened on 11/4/09 by SC

COURIER: CAS UPS FEDEX DHL CLIENT Tracking #

1	Were custody seals on outside of cooler?	Yes	No	N/A
2	Were seals intact, signed and dated?	Yes	No	N/A
3	Were custody papers properly filled out?	Yes	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 5.6			
5	Correct Temperature?	Yes	No	N/A
6	Were Ice or Ice Packs present	Yes	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A
9	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A
10	Were the correct bottles used for the tests indicated?	Yes	No	N/A
11	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A

HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2

Preservative additions noted below

12	Were all samples received within analysis holding times?	Yes	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A
14	Where did the bottles originate?	CAS	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date 35

SR # : J 0905604 Date: 11/11/09 Initials: CL

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

	Bottle Code																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	40mL	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100mL	Misc.
Container	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-				-	-
-001	3	3					1	1	1																					
-002	3	3					1	1	1																					
-003		1																												
-004																														
-005																														
-006																														
-007																														
-008																														
-009																														
-010																														
-011																														
-012																														
-013																														
-014																														
-015																														
-016																														
-017																														
-018																														
-019																														
-020																														
-021																														
-022																														
-023																														
-024																														
-025																														
-026																														
-027																														
-028																														
-029																														
-030																														
-031																														
-032																														
-033																														
-034																														
-035																														
-036																														
-037																														
-038																														
-039																														
-040																														

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR # J0905609
CAS Contact

Project Name: JED SWDF	Project Number: FQ1572A.02
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature:	Sampler's Printed Name: Joe Terry, Tom Wissler

ANALYSIS REQUESTED (Include Method Number and [redacted])

PRESERVATIVE: 1 0 3 2 0

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	NH3	Metals	TDS, Cl, NO3	REMARKS/ ALTERNATE DESCRIPTION
MW-23A		11-10-09	0845	GW	9	3	3	1	1	1	
MW-23C		11-10-09	0925	GW	9	3	3	1	1	1	
Trip Blk		10-28-09	1100	DI H2O	1	1					

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID: 09315 - JED-6 JT 11-11-09

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature Robert Nicholas	Signature Robert Nicholas	Signature	Signature	Signature
Printed Name Tom Wissler	Printed Name CAS	Printed Name CAS	Printed Name	Printed Name	Printed Name
Firm Geosyntec	Firm 11/11/09 12:30	Firm 11/11/09 2:40	Firm CAS	Firm	Firm
Date/Time 11-11-09	Date/Time	Date/Time	Date/Time 11/11/09 1440	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Hwy, Suite 200 | Jacksonville, FL 32256 | 904.739.2277 | 904.739.2011 fax | www.caslab.com

November 30, 2009

Service Request No: J0905564

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on November 10, 2009. For your reference, these analyses have been assigned our service request number **J0905564**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

© 100% Recycled Paper

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0905564
Project:	JED SWDF	**Date Received:**	11/10/09
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Eleven water samples and one trip blank were received for analysis at Columbia Analytical Services on 11/10/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile organics using EPA Method 8260. No problems were observed.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Method Blank Exceptions

Due to an inadvertent analyst error, the spiking mixture was added to Method Blank JWG0903759-4. No target analytes were detected in the associated field samples. It is the opinion of CAS that the data is not significantly affected and no further corrective action was necessary.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total and Dissolved Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for some parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was

Approved by _____ **Date** 11/30/09

consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 11/30/09

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: GeoSyntec Consultants
Project: JED SWDF

Service Request: J0905564

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0905564-001	MW-1A	11/9/09	15:30
J0905564-002	MW-1C	11/9/09	15:40
J0905564-003	MW-2A	11/9/09	14:15
J0905564-004	MW-2C	11/9/09	14:20
J0905564-005	MW-3A	11/9/09	12:35
J0905564-006	MW-3C	11/9/09	12:35
J0905564-007	MW-4A	11/9/09	10:55
J0905564-008	MW-4C	11/9/09	11:20
J0905564-009	MW-5A	11/9/09	09:32
J0905564-010	MW-5C	11/9/09	09:00
J0905564-011	EB	11/9/09	11:40
J0905564-012	Trip Blank	11/9/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1A
Lab Code: J0905564-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	**0.56**	I	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1A
Lab Code: J0905564-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	109	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	107	75-120	11/15/09	Acceptable
Dibromofluoromethane	98	82-116	11/15/09	Acceptable
Toluene-d8	99	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1C
Lab Code: J0905564-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1C
Lab Code: J0905564-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	110	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	109	75-120	11/15/09	Acceptable
Dibromofluoromethane	103	82-116	11/15/09	Acceptable
Toluene-d8	99	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2A
Lab Code: J0905564-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2A
Lab Code: J0905564-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	104	75-120	11/15/09	Acceptable
Dibromofluoromethane	101	82-116	11/15/09	Acceptable
Toluene-d8	93	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2C
Lab Code: J0905564-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-2C
Lab Code: J0905564-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	109	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	104	75-120	11/15/09	Acceptable
Dibromofluoromethane	97	82-116	11/15/09	Acceptable
Toluene-d8	97	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3A
Lab Code: J0905564-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	**0.75**	I	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3A
Lab Code: J0905564-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	105	75-120	11/15/09	Acceptable
Dibromofluoromethane	96	82-116	11/15/09	Acceptable
Toluene-d8	96	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3C
Lab Code: J0905564-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-3C
Lab Code: J0905564-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	113	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	103	75-120	11/15/09	Acceptable
Dibromofluoromethane	104	82-116	11/15/09	Acceptable
Toluene-d8	101	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4A
Lab Code: J0905564-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4A
Lab Code: J0905564-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	**0.19**	I	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	107	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	101	75-120	11/15/09	Acceptable
Dibromofluoromethane	98	82-116	11/15/09	Acceptable
Toluene-d8	96	88-117	11/15/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4C
Lab Code: J0905564-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-4C
Lab Code: J0905564-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	108	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	105	75-120	11/15/09	Acceptable
Dibromofluoromethane	99	82-116	11/15/09	Acceptable
Toluene-d8	95	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5A
Lab Code: J0905564-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5A
Lab Code: J0905564-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	103	75-120	11/15/09	Acceptable
Dibromofluoromethane	98	82-116	11/15/09	Acceptable
Toluene-d8	95	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5C
Lab Code: J0905564-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-5C
Lab Code: J0905564-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	104	75-120	11/15/09	Acceptable
Dibromofluoromethane	97	82-116	11/15/09	Acceptable
Toluene-d8	96	88-117	11/15/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: EB
Lab Code: J0905564-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: EB
Lab Code: J0905564-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	104	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	107	75-120	11/15/09	Acceptable
Dibromofluoromethane	96	82-116	11/15/09	Acceptable
Toluene-d8	93	88-117	11/15/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905564-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905564-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	105	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	103	75-120	11/15/09	Acceptable
Dibromofluoromethane	96	82-116	11/15/09	Acceptable
Toluene-d8	95	88-117	11/15/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903834-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
Vinyl Chloride	ND	U	1.0	0.25	1	11/15/09	11/15/09	JWG0903834	
Bromomethane	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroethane	ND	U	5.0	0.19	1	11/15/09	11/15/09	JWG0903834	
Trichlorofluoromethane	ND	U	20	0.25	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/15/09	11/15/09	JWG0903834	
Acetone	ND	U	50	2.4	1	11/15/09	11/15/09	JWG0903834	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/15/09	11/15/09	JWG0903834	
Carbon Disulfide	ND	U	10	0.84	1	11/15/09	11/15/09	JWG0903834	
Methylene Chloride	ND	U	5.0	0.72	1	11/15/09	11/15/09	JWG0903834	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/15/09	11/15/09	JWG0903834	
Acrylonitrile	ND	U	10	0.59	1	11/15/09	11/15/09	JWG0903834	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/15/09	11/15/09	JWG0903834	
Vinyl Acetate	ND	U	10	0.60	1	11/15/09	11/15/09	JWG0903834	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
2-Butanone (MEK)	ND	U	10	0.56	1	11/15/09	11/15/09	JWG0903834	
Bromochloromethane	ND	U	5.0	0.14	1	11/15/09	11/15/09	JWG0903834	
Chloroform	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Benzene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/15/09	11/15/09	JWG0903834	
Dibromomethane	ND	U	5.0	0.12	1	11/15/09	11/15/09	JWG0903834	
Bromodichloromethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/15/09	11/15/09	JWG0903834	
Toluene	ND	U	1.0	0.52	1	11/15/09	11/15/09	JWG0903834	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/15/09	11/15/09	JWG0903834	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/15/09	11/15/09	JWG0903834	
2-Hexanone	ND	U	25	0.36	1	11/15/09	11/15/09	JWG0903834	
Dibromochloromethane	ND	U	1.0	0.11	1	11/15/09	11/15/09	JWG0903834	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903834-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/15/09	11/15/09	JWG0903834	
Chlorobenzene	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Ethylbenzene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
m,p-Xylenes	ND	U	2.0	0.22	1	11/15/09	11/15/09	JWG0903834	
o-Xylene	ND	U	1.0	0.10	1	11/15/09	11/15/09	JWG0903834	
Styrene	ND	U	1.0	0.051	1	11/15/09	11/15/09	JWG0903834	
Bromoform	ND	U	2.0	0.12	1	11/15/09	11/15/09	JWG0903834	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/15/09	11/15/09	JWG0903834	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/15/09	11/15/09	JWG0903834	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/15/09	11/15/09	JWG0903834	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/15/09	11/15/09	JWG0903834	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/15/09	11/15/09	JWG0903834	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/15/09	11/15/09	JWG0903834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	107	71-122	11/15/09	Acceptable
4-Bromofluorobenzene	110	75-120	11/15/09	Acceptable
Dibromofluoromethane	101	82-116	11/15/09	Acceptable
Toluene-d8	102	88-117	11/15/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/09/2009
Sample Matrix:	Water	**Date Received:**	11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-1A	**Units:**	ug/L
Lab Code:	J0905564-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	114	77-150	11/13/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-1C
Lab Code: J0905564-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	111	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/09/2009
Sample Matrix:	Water	**Date Received:**	11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-2A	**Units:**	ug/L
Lab Code:	J0905564-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-2C
Lab Code: J0905564-004

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	109	77-150	11/13/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-3A
Lab Code: J0905564-005

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	108	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/09/2009
Sample Matrix:	Water	**Date Received:**	11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-3C	**Units:**	ug/L
Lab Code:	J0905564-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	108	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/09/2009
Sample Matrix:	Water	**Date Received:**	11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-4A	**Units:**	ug/L
Lab Code:	J0905564-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	106	77-150	11/13/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/09/2009
Date Received: 11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-4C
Lab Code: J0905564-008

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	111	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/09/2009
Sample Matrix:	Water	**Date Received:**	11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-5A	**Units:**	ug/L
Lab Code:	J0905564-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/09/2009
Sample Matrix:	Water	**Date Received:**	11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-5C	**Units:**	ug/L
Lab Code:	J0905564-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	107	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/09/2009
Sample Matrix:	Water	**Date Received:**	11/10/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	EB	**Units:**	ug/L
Lab Code:	J0905564-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/13/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/13/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	110	77-150	11/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0903759-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**0.29**		0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBC	**0.28**		0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	11/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Sample Name: MW-1A
Lab Code: J0905564-001

Service Request: J0905564
Date Collected: 11/ 9/09 1530
Date Received: 11/10/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 01:30
Arsenic, Total	6020	**1.25**		µg/L	0.50	0.20	1	11/12/09	11/24/09 01:30
Barium, Total	6020	**9.7**		µg/L	2.0	0.5	1	11/12/09	11/24/09 01:30
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:30
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 01:30
Chromium, Total	6020	**2.3**		µg/L	2.0	0.8	1	11/12/09	11/24/09 01:30
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:30
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 01:30
Iron, Total	6010B	**1870**		µg/L	50	4	1	11/12/09	11/12/09 19:46
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:30
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:09
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	11/12/09	11/24/09 01:30
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 01:30
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 01:30
Sodium, Total	6010B	**15.9**		mg/L	0.50	0.02	1	11/12/09	11/12/09 19:45
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:30
Vanadium, Total	6020	**1.9**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 01:30
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 01:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Sample Name: MW-1C
Lab Code: J0905564-002

Service Request: J0905564
Date Collected: 11/ 9/09 1540
Date Received: 11/10/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 01:35
Arsenic, Total	6020	**0.28**	I	µg/L	0.50	0.20	1	11/12/09	11/24/09 01:35
Barium, Total	6020	**13.1**		µg/L	2.0	0.5	1	11/12/09	11/24/09 01:35
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:35
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 01:35
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 01:35
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:35
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 01:35
Iron, Total	6010B	**412**		µg/L	50	4	1	11/12/09	11/12/09 20:01
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:35
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:11
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	11/12/09	11/24/09 01:35
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 01:35
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 01:35
Sodium, Total	6010B	**4.59**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:35
Vanadium, Total	6020	**2.2**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 01:35
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 01:35

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/ 9/09 1415
Date Received: 11/10/09

Sample Name: MW-2A
Lab Code: J0905564-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 01:39
Arsenic, Total	6020	**1.14**		µg/L	0.50	0.20	1	11/12/09	11/24/09 01:39
Barium, Total	6020	**31.9**		µg/L	2.0	0.5	1	11/12/09	11/24/09 01:39
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:39
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 01:39
Chromium, Total	6020	**4.5**		µg/L	2.0	0.8	1	11/12/09	11/24/09 01:39
Cobalt, Total	6020	**5.3**		µg/L	1.0	0.2	1	11/12/09	11/24/09 01:39
Copper, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	11/12/09	11/24/09 01:39
Iron, Total	6010B	**16400**		µg/L	50	4	1	11/12/09	11/12/09 20:04
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:39
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:12
Nickel, Total	6020	**2.6**		µg/L	2.0	0.3	1	11/12/09	11/24/09 01:39
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 01:39
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 01:39
Sodium, Total	6010B	**11.9**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:04
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 01:39
Vanadium, Total	6020	**1.6**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 01:39
Zinc, Total	6020	**7**	I	µg/L	10	4	1	11/12/09	11/24/09 01:39

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Sample Name: MW-2C
Lab Code: J0905564-004

Service Request: J0905564
Date Collected: 11/ 9/09 1420
Date Received: 11/10/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:19
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	11/12/09	11/24/09 02:19
Barium, Total	6020	**12.2**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:19
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:19
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:19
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:19
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:19
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:19
Iron, Total	6010B	**489**		µg/L	50	4	1	11/12/09	11/12/09 20:08
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:19
Mercury, Total	7470A	**0.08**	I	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:14
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:19
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:19
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:19
Sodium, Total	6010B	**4.84**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:07
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:19
Vanadium, Total	6020	**1.5**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 02:19
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:19

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/ 9/09 1235
Sample Matrix:	Water	**Date Received:**	11/10/09
Sample Name:	MW-3A		
Lab Code:	J0905564-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:24
Arsenic, Total	6020	**2.26**		µg/L	0.50	0.20	1	11/12/09	11/24/09 02:24
Barium, Total	6020	**65.6**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:24
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:24
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:24
Chromium, Total	6020	**1.0**	I	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:24
Cobalt, Total	6020	**1.2**		µg/L	1.0	0.2	1	11/12/09	11/24/09 02:24
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:24
Iron, Total	6010B	**4400**		µg/L	50	4	1	11/12/09	11/12/09 20:17
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:24
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:26
Nickel, Total	6020	**2.3**		µg/L	2.0	0.3	1	11/12/09	11/24/09 02:24
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:24
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:24
Sodium, Total	6010B	**42.3**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:16
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:24
Vanadium, Total	6020	**2.3**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 02:24
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:24

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Sample Name: MW-3C
Lab Code: J0905564-006

Service Request: J0905564
Date Collected: 11/ 9/09 1235
Date Received: 11/10/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:28
Arsenic, Total	6020	**0.42**	I	µg/L	0.50	0.20	1	11/12/09	11/24/09 02:28
Barium, Total	6020	**11.5**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:28
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:28
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:28
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:28
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:28
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:28
Iron, Total	6010B	**683**		µg/L	50	4	1	11/12/09	11/12/09 20:21
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:28
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:27
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:28
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:28
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:28
Sodium, Total	6010B	**5.09**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:28
Vanadium, Total	6020	**1.8**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 02:28
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:28

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/ 9/09 1055
Date Received: 11/10/09

Sample Name: MW-4A
Lab Code: J0905564-007

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:33
Arsenic, Total	6020	**1.56**		µg/L	0.50	0.20	1	11/12/09	11/24/09 02:33
Barium, Total	6020	**25.2**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:33
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:33
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:33
Chromium, Total	6020	**2.4**		µg/L	2.0	0.8	1	11/12/09	11/24/09 02:33
Cobalt, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:33
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:33
Iron, Total	6010B	**1850**		µg/L	50	4	5	11/12/09	11/12/09 20:24
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:33
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:28
Nickel, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:33
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:33
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:33
Sodium, Total	6010B	**15.7**		mg/L	0.50	0.02	5	11/12/09	11/12/09 20:23
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:33
Vanadium, Total	6020	**3.0**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 02:33
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:33

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/ 9/09 1120
Date Received: 11/10/09

Sample Name: MW-4C
Lab Code: J0905564-008

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.4	1	11/16/09	11/18/09 23:00
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:38
Arsenic, Dissolved	6020	ND	U	µg/L	0.50	0.20	1	11/16/09	11/18/09 23:00
Arsenic, Total	6020	**0.26**	I	µg/L	0.50	0.20	1	11/12/09	11/24/09 02:38
Barium, Dissolved	6020	**8.4**		µg/L	2.0	0.5	1	11/16/09	11/18/09 23:00
Barium, Total	6020	**17.9**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:38
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/18/09 23:00
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:38
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.12	1	11/16/09	11/18/09 23:00
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:38
Chromium, Dissolved	6020	**0.9**	I	µg/L	2.0	0.8	1	11/16/09	11/18/09 23:00
Chromium, Total	6020	**2.6**		µg/L	2.0	0.8	1	11/12/09	11/24/09 02:38
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/25/09 06:46
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:38
Copper, Dissolved	6020	**1.6**	I	µg/L	2.0	0.3	1	11/16/09	11/18/09 23:00
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:38
Iron, Dissolved	6010B	**698**		µg/L	50	4	1	11/18/09	11/19/09 16:37
Iron, Total	6010B	**984**		µg/L	50	4	1	11/12/09	11/12/09 20:27
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/18/09 23:00
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:38
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:31
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:30
Nickel, Dissolved	6020	**1.7**	I	µg/L	2.0	0.3	1	11/16/09	11/18/09 23:00
Nickel, Total	6020	**1.9**	I	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:38
Selenium, Dissolved	6020	**0.9**	I	µg/L	2.0	0.8	1	11/16/09	11/18/09 23:00
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:38
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	11/16/09	11/18/09 23:00
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:38
Sodium, Dissolved	6010B	**8.38**		mg/L	0.50	0.02	1	11/18/09	11/19/09 16:36
Sodium, Total	6010B	**8.75**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:27
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/18/09 23:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:38
Vanadium, Dissolved	6020	**1.6**	I	µg/L	5.0	1.2	1	11/16/09	11/18/09 23:00
Vanadium, Total	6020	**2.5**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 02:38
Zinc, Dissolved	6020	ND	U	µg/L	10	4	1	11/16/09	11/18/09 23:00
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:38

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/ 9/09 0932
Date Received: 11/10/09

Sample Name: MW-5A
Lab Code: J0905564-009

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:43
Arsenic, Total	6020	**1.76**		µg/L	0.50	0.20	1	11/12/09	11/24/09 02:43
Barium, Total	6020	**2.0**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:43
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:43
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:43
Chromium, Total	6020	**4.6**		µg/L	2.0	0.8	1	11/12/09	11/24/09 02:43
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:43
Copper, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:43
Iron, Total	6010B	**334**		µg/L	50	4	1	11/12/09	11/12/09 20:31
Lead, Total	6020	**2.1**		µg/L	1.0	0.2	1	11/12/09	11/24/09 02:43
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:33
Nickel, Total	6020	**3.4**		µg/L	2.0	0.3	1	11/12/09	11/24/09 02:43
Selenium, Total	6020	**1.0**	I	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:43
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:43
Sodium, Total	6010B	**26.5**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:30
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:43
Vanadium, Total	6020	**5.1**		µg/L	5.0	1.2	1	11/12/09	11/24/09 02:43
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:43

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905564
Project:	JED SWDF	**Date Collected:**	11/ 9/09 0900
Sample Matrix:	Water	**Date Received:**	11/10/09
Sample Name:	MW-5C		
Lab Code:	J0905564-010	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:48
Arsenic, Total	6020	**0.26**	I	µg/L	0.50	0.20	1	11/12/09	11/24/09 02:48
Barium, Total	6020	**21.7**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:48
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:48
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:48
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:48
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:48
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:48
Iron, Total	6010B	**834**		µg/L	50	4	1	11/12/09	11/12/09 20:34
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:48
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:34
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:48
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:48
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:48
Sodium, Total	6010B	**8.53**		mg/L	0.50	0.02	1	11/12/09	11/12/09 20:34
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:48
Vanadium, Total	6020	**1.9**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 02:48
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:48

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Sample Name: EB
Lab Code: J0905564-011

Service Request: J0905564
Date Collected: 11/ 9/09 1140
Date Received: 11/10/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 02:53
Arsenic, Total	6020	**0.25**	I	µg/L	0.50	0.20	1	11/12/09	11/24/09 02:53
Barium, Total	6020	**3.4**		µg/L	2.0	0.5	1	11/12/09	11/24/09 02:53
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:53
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 02:53
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:53
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:53
Copper, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	11/12/09	11/24/09 02:53
Iron, Total	6010B	**82**		µg/L	50	4	5	11/12/09	11/12/09 20:38
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:53
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 17:36
Nickel, Total	6020	**2.2**		µg/L	2.0	0.3	1	11/12/09	11/24/09 02:53
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 02:53
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 02:53
Sodium, Total	6010B	**1.72**		mg/L	0.50	0.02	5	11/12/09	11/12/09 20:37
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 02:53
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/12/09	11/24/09 02:53
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 02:53

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: J0905564-MB

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Dissolved	6020	ND	U	µg/L	2.0	0.4	1	11/16/09	11/18/09 21:01
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/24/09 00:21
Arsenic, Dissolved	6020	**0.30**	I	µg/L	0.50	0.20	1	11/16/09	11/17/09 00:24
Arsenic, Total	6020	**0.33**	I	µg/L	0.50	0.20	1	11/12/09	11/24/09 00:21
Barium, Dissolved	6020	ND	U	µg/L	2.0	0.5	1	11/16/09	11/17/09 00:24
Barium, Total	6020	**1.3**	I	µg/L	2.0	0.5	1	11/12/09	11/24/09 00:21
Beryllium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/18/09 21:01
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 00:21
Cadmium, Dissolved	6020	ND	U	µg/L	0.50	0.12	1	11/16/09	11/17/09 00:24
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/24/09 00:21
Chromium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/16/09	11/17/09 00:24
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 00:21
Cobalt, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/18/09 21:01
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 00:21
Copper, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/16/09	11/18/09 21:01
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 00:21
Iron, Dissolved	6010B	ND	U	µg/L	50	4	1	11/18/09	11/19/09 16:10
Iron, Total	6010B	**6**	I	µg/L	50	4	1	11/12/09	11/12/09 19:31
Lead, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/17/09 00:24
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 00:21
Mercury, Dissolved	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 16:47
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/23/09	11/23/09 16:47
Nickel, Dissolved	6020	ND	U	µg/L	2.0	0.3	1	11/16/09	11/18/09 21:01
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/24/09 00:21
Selenium, Dissolved	6020	ND	U	µg/L	2.0	0.8	1	11/16/09	11/17/09 00:24
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/24/09 00:21
Silver, Dissolved	6020	ND	U	µg/L	0.50	0.08	1	11/16/09	11/17/09 00:24
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/24/09 00:21
Sodium, Dissolved	6010B	**0.06**	I	mg/L	0.50	0.02	1	11/18/09	11/19/09 16:09
Sodium, Total	6010B	**0.03**	I	mg/L	0.50	0.02	1	11/12/09	11/12/09 19:30
Thallium, Dissolved	6020	ND	U	µg/L	1.0	0.2	1	11/16/09	11/18/09 21:01
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/24/09 00:21
Vanadium, Dissolved	6020	ND	U	µg/L	5.0	1.2	1	11/16/09	11/18/09 21:01
Vanadium, Total	6020	**1.3**	I	µg/L	5.0	1.2	1	11/12/09	11/24/09 00:21
Zinc, Dissolved	6020	ND	U	µg/L	10	4	1	11/16/09	11/18/09 21:01
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/24/09 00:21

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-1A
Lab Code : J0905564-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	1.2	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	31	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/10/09 23:19	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	66	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-1C
Lab Code : J0905564-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	0.065	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	7.6	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 00:04	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	45	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-2A
Lab Code : J0905564-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	0.87	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	46	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 00:18	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	87	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-2C
Lab Code : J0905564-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	0.055	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	7.5	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 00:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	31	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-3A
Lab Code : J0905564-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	8.7	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	69	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 00:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	380	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-3C
Lab Code : J0905564-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	0.053	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	8.3	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 01:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	37	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-4A
Lab Code : J0905564-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	10	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	55	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 02:03	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	140	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-4C
Lab Code : J0905564-008
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	0.089	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 02:18	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	88	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-5A
Lab Code : J0905564-009
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	9.6	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	45	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 02:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	290	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : MW-5C
Lab Code : J0905564-010
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	0.064	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	16	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 02:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	55	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09

Inorganic Parameters

Sample Name : EB
Lab Code : J0905564-011
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	0.21	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/11/09 03:03	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	U	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0905564-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/18/09 09:49	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/10/09 22:33	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/10/09 22:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/16/09 17:30	U	

Report By: Palimi

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-1A	J0905564-001	109	107	98	99
MW-1C	J0905564-002	110	109	103	99
MW-2A	J0905564-003	106	104	101	93
MW-2C	J0905564-004	109	104	97	97
MW-3A	J0905564-005	106	105	96	96
MW-3C	J0905564-006	113	103	104	101
MW-4A	J0905564-007	107	101	98	96
MW-4C	J0905564-008	108	105	99	95
MW-5A	J0905564-009	106	103	98	95
MW-5C	J0905564-010	106	104	97	96
EB	J0905564-011	104	107	96	93
Trip Blank	J0905564-012	105	103	96	95
Method Blank	JWG0903834-4	107	110	101	102
MW-1AMS	JWG0903834-1	112	110	103	101
MW-1ADMS	JWG0903834-2	107	104	97	96
Lab Control Sample	JWG0903834-3	104	104	98	94

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	71-122
Sur2 = 4-Bromofluorobenzene	75-120
Sur3 = Dibromofluoromethane	82-116
Sur4 = Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Extracted: 11/15/2009
Date Analyzed: 11/15/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1A
Lab Code: J0905564-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0903834

Analyte Name	Sample Result	MW-1AMS JWG0903834-1 Matrix Spike			MW-1ADMS JWG0903834-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Chloromethane	ND	20.1	20.0	101	19.8	20.0	99	73-139	2	30
Vinyl Chloride	ND	22.6	20.0	113	21.9	20.0	109	78-141	3	30
Bromomethane	ND	16.7	20.0	84	16.4	20.0	82	78-129	2	30
Chloroethane	ND	25.7	20.0	129	23.2	20.0	116	76-129	10	30
Trichlorofluoromethane	ND	23.2	20.0	116	22.5	20.0	113	81-133	3	30
1,1-Dichloroethene	ND	22.7	20.0	113	22.0	20.0	110	79-133	3	30
Acetone	ND	120	100	120	108	100	108	56-139	10	30
Iodomethane (Methyl Iodide)	ND	114	100	114	120	100	120	74-134	6	30
Carbon Disulfide	ND	104	100	104	101	100	101	71-146	3	30
Methylene Chloride	ND	20.1	20.0	101	19.5	20.0	97	75-123	3	30
trans-1,2-Dichloroethene	ND	22.1	20.0	110	21.8	20.0	109	76-125	1	30
Acrylonitrile	ND	104	100	104	101	100	101	68-131	3	30
1,1-Dichloroethane	ND	22.1	20.0	110	21.7	20.0	109	78-125	2	30
Vinyl Acetate	ND	69.6	100	70	66.9	100	67	43-163	4	30
cis-1,2-Dichloroethene	ND	20.6	20.0	103	20.0	20.0	100	75-127	3	30
2-Butanone (MEK)	ND	105	100	105	106	100	106	63-134	0	30
Bromochloromethane	ND	22.7	20.0	113	21.8	20.0	109	80-124	4	30
Chloroform	ND	22.6	20.0	113	21.8	20.0	109	81-124	3	30
1,1,1-Trichloroethane (TCA)	ND	22.5	20.0	113	21.9	20.0	109	76-130	3	30
Carbon Tetrachloride	ND	22.1	20.0	110	21.9	20.0	109	76-131	1	30
Benzene	0.56	21.7	20.0	106	21.3	20.0	103	78-123	2	30
1,2-Dichloroethane (EDC)	ND	22.5	20.0	113	22.0	20.0	110	74-126	3	30
Trichloroethene (TCE)	ND	20.4	20.0	102	20.1	20.0	101	77-128	1	30
1,2-Dichloropropane	ND	21.2	20.0	106	20.7	20.0	104	77-122	2	30
Dibromomethane	ND	21.9	20.0	110	20.7	20.0	103	78-124	6	30
Bromodichloromethane	ND	20.2	20.0	101	20.4	20.0	102	79-125	1	30
cis-1,3-Dichloropropene	ND	18.4	20.0	92	18.0	20.0	90	77-117	2	30
4-Methyl-2-pentanone (MIBK)	ND	98.3	100	98	97.0	100	97	65-138	1	30
Toluene	ND	19.8	20.0	99	19.4	20.0	97	86-119	2	30
trans-1,3-Dichloropropene	ND	18.2	20.0	91	17.9	20.0	89	75-120	2	30
1,1,2-Trichloroethane	ND	18.8	20.0	94	18.3	20.0	92	77-124	2	30
Tetrachloroethene (PCE)	ND	19.2	20.0	96	18.9	20.0	95	79-123	2	30
2-Hexanone	ND	99.2	100	99	96.3	100	96	63-142	3	30
Dibromochloromethane	ND	18.6	20.0	93	18.0	20.0	90	78-124	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Extracted: 11/15/2009
Date Analyzed: 11/15/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-1A
Lab Code: J0905564-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0903834

Analyte Name	Sample Result	MW-1AMS JWG0903834-1 Matrix Spike			MW-1ADMS JWG0903834-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	20.5	20.0	103	20.1	20.0	101	81-119	2	30
Chlorobenzene	ND	18.7	20.0	93	18.4	20.0	92	81-120	2	30
1,1,1,2-Tetrachloroethane	ND	19.4	20.0	97	18.9	20.0	95	82-118	2	30
Ethylbenzene	ND	20.2	20.0	101	20.0	20.0	100	87-122	1	30
m,p-Xylenes	ND	39.1	40.0	98	38.5	40.0	96	82-120	2	30
o-Xylene	ND	20.0	20.0	100	19.5	20.0	97	85-119	3	30
Styrene	ND	18.9	20.0	94	18.4	20.0	92	84-126	2	30
Bromoform	ND	16.6	20.0	83	16.4	20.0	82	70-129	1	30
1,1,2,2-Tetrachloroethane	ND	18.2	20.0	91	17.8	20.0	89	72-127	2	30
1,2,3-Trichloropropane	ND	18.7	20.0	93	17.8	20.0	89	76-123	5	30
1,4-Dichlorobenzene	ND	18.6	20.0	93	18.4	20.0	92	75-115	1	30
trans-1,4-Dichloro-2-butene	ND	15.7	20.0	78	17.1	20.0	86	22-135	9	30
1,2-Dichlorobenzene	ND	18.5	20.0	92	18.8	20.0	94	77-116	2	30
1,2-Dibromo-3-chloropropane (DBCP	ND	16.9	20.0	84	18.1	20.0	90	54-120	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Extracted: 11/15/2009
Date Analyzed: 11/15/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903834

Analyte Name	Lab Control Sample JWG0903834-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	20.3	20.0	102	67-135
Vinyl Chloride	21.1	20.0	106	78-132
Bromomethane	17.6	20.0	88	79-130
Chloroethane	22.4	20.0	112	74-126
Trichlorofluoromethane	20.5	20.0	102	74-134
1,1-Dichloroethene	20.7	20.0	104	78-130
Acetone	114	100	114	67-133
Iodomethane (Methyl Iodide)	115	100	115	68-134
Carbon Disulfide	92.6	100	93	76-138
Methylene Chloride	20.4	20.0	102	72-124
trans-1,2-Dichloroethene	20.2	20.0	101	77-124
Acrylonitrile	101	100	101	77-127
1,1-Dichloroethane	20.2	20.0	101	80-128
Vinyl Acetate	111	100	111	61-148
cis-1,2-Dichloroethene	19.0	20.0	95	80-126
2-Butanone (MEK)	102	100	102	73-127
Bromochloromethane	20.7	20.0	103	79-129
Chloroform	20.2	20.0	101	83-124
1,1,1-Trichloroethane (TCA)	20.7	20.0	104	79-124
Carbon Tetrachloride	19.9	20.0	100	81-125
Benzene	19.6	20.0	98	79-119
1,2-Dichloroethane (EDC)	20.2	20.0	101	80-124
Trichloroethene (TCE)	19.0	20.0	95	76-124
1,2-Dichloropropane	19.1	20.0	96	79-123
Dibromomethane	20.3	20.0	102	83-123
Bromodichloromethane	18.9	20.0	95	81-123
cis-1,3-Dichloropropene	18.3	20.0	92	86-123
4-Methyl-2-pentanone (MIBK)	93.4	100	93	72-136
Toluene	18.0	20.0	90	86-117
trans-1,3-Dichloropropene	18.1	20.0	90	83-124
1,1,2-Trichloroethane	18.1	20.0	90	86-114
Tetrachloroethene (PCE)	18.2	20.0	91	80-121
2-Hexanone	97.7	100	98	71-138
Dibromochloromethane	18.4	20.0	92	82-121
1,2-Dibromoethane (EDB)	19.0	20.0	95	88-117
Chlorobenzene	18.4	20.0	92	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Extracted: 11/15/2009
Date Analyzed: 11/15/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903834

Analyte Name	Lab Control Sample JWG0903834-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	17.9	20.0	90	85-117
Ethylbenzene	20.1	20.0	100	90-118
m,p-Xylenes	37.3	40.0	93	86-121
o-Xylene	19.3	20.0	96	89-119
Styrene	18.1	20.0	91	89-122
Bromoform	17.1	20.0	86	68-129
1,1,2,2-Tetrachloroethane	17.0	20.0	85	83-120
1,2,3-Trichloropropane	18.1	20.0	90	83-123
1,4-Dichlorobenzene	18.4	20.0	92	83-113
trans-1,4-Dichloro-2-butene	17.4	20.0	87	53-143
1,2-Dichlorobenzene	18.9	20.0	95	84-115
1,2-Dibromo-3-chloropropane (DBCP	18.2	20.0	91	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-1A	J0905564-001	114
MW-1C	J0905564-002	111
MW-2A	J0905564-003	112
MW-2C	J0905564-004	109
MW-3A	J0905564-005	108
MW-3C	J0905564-006	108
MW-4A	J0905564-007	106
MW-4C	J0905564-008	111
MW-5A	J0905564-009	110
MW-5C	J0905564-010	107
EB	J0905564-011	110
Method Blank	JWG0903759-4	117
Lab Control Sample	JWG0903759-3	113

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Extracted: 11/11/2009
Date Analyzed: 11/12/2009

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903759

	Lab Control Sample JWG0903759-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.279	0.250	112	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.274	0.250	110	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/9/09
Date Received: 11/10/09
Date Analyzed: 11/12/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-1A
Lab Code: J0905564-001

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0905564-MS1 Result	Amount	% Rec	Duplicate Matrix Spike J0905564-DMS1 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	1870	3800	2000	97	3810	2000	97	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/9/09
Date Received: 11/10/09
Date Analyzed: 11/12/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-1A
Lab Code: J0905564-001

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		Matrix Spike J0905564-MS1			Duplicate Matrix Spike J0905564-DMS1					
Analyte Name	**Sample Result**	**Result**	**Amount**	**% Rec**	**Result**	**Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Sodium, Total	15.9	25.9	10.0	100	25.9	10.0	100	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/9/09
Date Received: 11/10/09
Date Analyzed: 11/24/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-2A
Lab Code: J0905564-003

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0905564-MS2 Result	Amount	% Rec	Duplicate Matrix Spike J0905564-DMS2 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Antimony, Total	ND	50.4	50.0	101	49.3	50.0	99	75 - 125	2	20
Arsenic, Total	1.14	48.3	50.0	94	48.1	50.0	94	75 - 125	1	20
Barium, Total	31.9	84.7	50.0	106	82.2	50.0	100	75 - 125	3	20
Beryllium, Total	ND	48.2	50.0	96	45.6	50.0	91	75 - 125	5	20
Cadmium, Total	ND	49.0	50.0	98	48.1	50.0	96	75 - 125	2	20
Chromium, Total	4.5	52.6	50.0	96	54.0	50.0	99	75 - 125	3	20
Cobalt, Total	5.3	54.7	50.0	99	56.2	50.0	102	75 - 125	3	20
Copper, Total	0.4	47.8	50.0	95	48.9	50.0	97	75 - 125	2	20
Lead, Total	ND	53.3	50.0	107	52.5	50.0	105	75 - 125	1	20
Nickel, Total	2.6	48.9	50.0	93	50.7	50.0	96	75 - 125	4	20
Selenium, Total	ND	43.9	50.0	88	43.8	50.0	88	75 - 125	0	20
Silver, Total	ND	51.7	50.0	103	49.4	50.0	99	75 - 125	4	20
Thallium, Total	ND	52.1	50.0	104	51.9	50.0	104	75 - 125	0	20
Vanadium, Total	1.6	52.9	50.0	103	52.2	50.0	101	75 - 125	1	20
Zinc, Total	7	97.4	100	91	97.5	100	91	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Collected: 11/9/09
Date Received: 11/10/09
Date Analyzed: 11/23/09

Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name: MW-2C
Lab Code: J0905564-004

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J0905564-MS3 Result	Amount	% Rec	Duplicate Matrix Spike J0905564-DMS3 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	0.08	5.22	5.00	103	5.15	5.00	101	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Analyzed: 11/12/09 - 11/24/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905564-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Dissolved	6020	**51.8**	50.0	104	80 - 120
Antimony, Total	6020	**50.0**	50.0	100	80 - 120
Arsenic, Dissolved	6020	**51.6**	50.0	103	80 - 120
Arsenic, Total	6020	**47.7**	50.0	95	80 - 120
Barium, Dissolved	6020	**47.3**	50.0	95	80 - 120
Barium, Total	6020	**52.6**	50.0	105	80 - 120
Beryllium, Dissolved	6020	**50.9**	50.0	102	80 - 120
Beryllium, Total	6020	**53.0**	50.0	106	80 - 120
Cadmium, Dissolved	6020	**51.0**	50.0	102	80 - 120
Cadmium, Total	6020	**49.6**	50.0	99	80 - 120
Chromium, Dissolved	6020	**48.6**	50.0	97	80 - 120
Chromium, Total	6020	**52.1**	50.0	104	80 - 120
Cobalt, Dissolved	6020	**49.6**	50.0	99	80 - 120
Cobalt, Total	6020	**51.0**	50.0	102	80 - 120
Copper, Dissolved	6020	**50.6**	50.0	101	80 - 120
Copper, Total	6020	**49.6**	50.0	99	80 - 120
Iron, Dissolved	6010B	**1920**	2000	96	80 - 120
Iron, Total	6010B	**1960**	2000	98	80 - 120
Lead, Dissolved	6020	**49.4**	50.0	99	80 - 120
Lead, Total	6020	**52.8**	50.0	106	80 - 120
Mercury, Dissolved	7470A	**5.25**	5.00	105	80 - 120
Mercury, Total	7470A	**5.25**	5.00	105	80 - 120
Nickel, Dissolved	6020	**49.8**	50.0	100	80 - 120
Nickel, Total	6020	**50.2**	50.0	100	80 - 120
Selenium, Dissolved	6020	**51.2**	50.0	102	80 - 120
Selenium, Total	6020	**45.2**	50.0	90	80 - 120
Silver, Dissolved	6020	**52.5**	50.0	105	80 - 120
Silver, Total	6020	**53.5**	50.0	107	80 - 120
Thallium, Dissolved	6020	**48.7**	50.0	97	80 - 120
Thallium, Total	6020	**51.1**	50.0	102	80 - 120
Vanadium, Dissolved	6020	**46.9**	50.0	94	80 - 120
Vanadium, Total	6020	**52.6**	50.0	105	80 - 120
Zinc, Dissolved	6020	**105**	100	105	80 - 120
Zinc, Total	6020	**95.6**	100	96	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF
Sample Matrix: Water

Service Request: J0905564
Date Analyzed: 11/12/09 - 11/19/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905564-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Dissolved	6010B	**10.2**	10.0	102	80 - 120
Sodium, Total	6010B	**10.3**	10.0	103	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09
Date Extracted : NA
Date Analyzed : 11/10-16/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-1A
Lab Code : J0905564-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	31	31	31	<1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	U	U	U	-	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	66	74	70	11	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09
Date Extracted : NA
Date Analyzed : 11/10/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-1A
Lab Code : J0905564-001MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Chloride	mg/L (ppm)	300.0	0.2	100	31	132	101	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	5.0	U	5.11	102	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : 11/09/09
Date Received : 11/10/09
Date Extracted : NA
Date Analyzed : 11/16/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-5C
Lab Code : J0905564-010DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	55	55	55	<1	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : NA
Sample Matrix : WATER

Service Request : J0905564
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 11/10-18/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0905564-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	1.00	1.03	103	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.14	103	90-110	
Chloride	mg/L (ppm)	300.0	100	102	102	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.06	101	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	291	97	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: GeoSyntec Service Request # JG603564

Project: JED SWDF

Cooler received on 11/10/09 and opened on 11/10/09 by 8YO

COURIER: CAS (UPS) FEDEX DHL CLIENT Tracking # J20615-12618

1	Were custody seals on outside of cooler?	(Yes)	No	N/A
2	Were seals intact, signed and dated?	(Yes)	No	N/A
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 4.0			
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	Were all of the preserved bottles received with the appropriate preservative?	(Yes)	No	N/A

(HNO3 pH<2) (H2SO4 pH<2) ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2

Preservative additions noted below

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date: 86

SR #: JC9055641 Date: 11/10/09 Initials: SJO

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

	Bottle Code																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	40mL	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100mL	Misc.
Container	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-001	3	3					1	1	1																					
-002																														
-003																														
-004																														
-005																														
-006																														
-007								2																						
-008								1																						
-009								1																						
-010																														
-011		1																												
-012		2																												
-013																														
-014																														
-015																														
-016																														
-017																														
-018																														
-019																														
-020																														
-021																														
-022																														
-023																														
-024																														
-025																														
-026																														
-027																														
-028																														
-029																														
-030																														
-031																														
-032																														
-033																														
-034																														
-035																														
-036																														
-037																														
-038																														
-039																														
-040																														

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services
www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # J0905564
CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A.02
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry, Tom Wisslow	Sampler's Printed Name: Joe Terry, Tom Wisslow

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 0 3 2 0 2

NUMBER OF CONTAINERS / 8260 / 8011 / NH3 / Metals / TDS, Cl, NO3 / Dissolved Metals

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	NH3	Metals	TDS, Cl, NO3	Dissolved Metals	REMARKS/ ALTERNATE DESCRIPTION
MW-1A		11-9-09	1530	GW	9	3	3	1	1	1		
MW-1C			1540		9							
MW-2A			1415		9							
MW-2C			1420		9							
MW-3A			1235		9							
MW-3C			1235		9							
MW-4A			1055		9							
MW-4C			1120		10						1	
MW-5A			0932		9							
MW-5C			0900		9							

SPECIAL INSTRUCTIONS/COMMENTS: Trip Blank 2 - containers for 8260 analysis
Date for TB: 10-28-09 time 11:00
Cooler ID: 09313-JED-01

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature:	Signature:	Signature: Summer Ostrom	Signature:	Signature:
Printed Name: Joe Terry	Printed Name: UPS	Printed Name: UPS	Printed Name: Summer Ostrom	Printed Name:	Printed Name:
Firm: Geosyntec	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 11-9-09 1630	Date/Time:	Date/Time:	Date/Time: 11/10/09 0920	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR # JQ9055641

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 2 OF 2

CAS Contact

www.caslab.com

Project Name: JED SWDF.	Project Number: EQ1512A.02
Project Manager: Kirk Wills	Email Address:
Company/Address: Geosyntec – Tampa	
Phone #	FAX#
Sampler's Signature	Sampler's Printed Name

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 0 3 2 0

NUMBER OF CONTAINERS: 8260 | 8011 | NH3 | Metals | TSS, Cl, NO3

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX																
EB		11-9-09	1140	DI_{H_2O}	9	3	3	1	1	1										

JGT 11-10-09

SPECIAL INSTRUCTIONS/COMMENTS

Craig,
I accidently forgot to add the analysis for the equipment blank (sample ID EB) to the chain ~~on~~ for the cooler shipped yesterday (11-4-09) under airbill 1Z08151 2018. Please add this page to the chain received with the cooler. Thank you Joe Terry 10 Nov 2009

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature:	Signature:	Signature: Summer Ostrom	Signature:	Signature:
Printed Name: Joe Terry	Printed Name: UPS	Printed Name: UPS	Printed Name:	Printed Name:	Printed Name:
Firm: Geosyntec	Firm:	Firm:	Firm: CAS	Firm:	Firm:
Date/Time:	Date/Time:	Date/Time:	Date/Time: 11/10/09 0920	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Hwy, Suite 200 | Jacksonville, FL 32256 | 904.739.2277 | 904.739.2011 fax | www.caslab.com

November 24, 2009

Service Request No: J0905509

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A.02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on November 6, 2009. For your reference, these analyses have been assigned our service request number **J0905509**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

100% Recycled Paper

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0905509
Project:	JED SWDF	**Date Received:**	11/6/09
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Six water samples and one trip blank were received for analysis at Columbia Analytical Services on 11/6/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile organics using EPA Method 8260. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Method Blank Exceptions

Due to an inadvertent analyst error, the spiking mixture was added to Method Blank JWG0903759-4. No target analytes were detected in the associated field samples. It is the opinion of CAS that the data is not significantly affected and no further corrective action was necessary.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total Metals using EPA Methods 6020/6010B/7470A. The following observations were made regarding this delivery group.

Approved by _____ **Date** 11/24/09

Matrix Spike Recovery Exceptions

The matrix spike recoveries of Selenium for sample MW-6A were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was appropriate.

The matrix spike recoveries of Mercury for sample MW-7A were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was appropriate.

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Batch QC Notes and Discussion

Quality control samples for some parameters (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 11/24/09

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02

Service Request: J0905509

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0905509-001	MW-6A	11/5/09	15:25
J0905509-002	MW-6C	11/5/09	14:58
J0905509-003	MW-7A	11/5/09	13:30
J0905509-004	MW-7C	11/5/09	12:55
J0905509-005	MW-8A	11/5/09	09:12
J0905509-006	MW-8C	11/5/09	09:45
J0905509-007	Trip Blank	11/5/09	00:00

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6A
Lab Code: J0905509-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Benzene	**0.58**	I	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903813	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6A
Lab Code: J0905509-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903813	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	91	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	113	75-120	11/14/09	Acceptable
Dibromofluoromethane	94	82-116	11/14/09	Acceptable
Toluene-d8	106	88-117	11/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6C
Lab Code: J0905509-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903813	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-6C
Lab Code: J0905509-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903813	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	91	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	118	75-120	11/14/09	Acceptable
Dibromofluoromethane	94	82-116	11/14/09	Acceptable
Toluene-d8	104	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7A
Lab Code: J0905509-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903813	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7A
Lab Code: J0905509-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903813	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	89	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	115	75-120	11/14/09	Acceptable
Dibromofluoromethane	91	82-116	11/14/09	Acceptable
Toluene-d8	103	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7C
Lab Code: J0905509-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903813	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-7C
Lab Code: J0905509-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903813	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	89	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	117	75-120	11/14/09	Acceptable
Dibromofluoromethane	94	82-116	11/14/09	Acceptable
Toluene-d8	102	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J0905509-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Benzene	**1.3**		1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903813	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J0905509-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903813	
o-Xylene	**0.33**	I	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	89	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	115	75-120	11/14/09	Acceptable
Dibromofluoromethane	93	82-116	11/14/09	Acceptable
Toluene-d8	107	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8C
Lab Code: J0905509-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903813	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8C
Lab Code: J0905509-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903813	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	87	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	116	75-120	11/14/09	Acceptable
Dibromofluoromethane	96	82-116	11/14/09	Acceptable
Toluene-d8	105	88-117	11/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905509-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/14/09	11/14/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/14/09	11/14/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/14/09	11/14/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/14/09	11/14/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/14/09	11/14/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/14/09	11/14/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/14/09	11/14/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/14/09	11/14/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/14/09	11/14/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/14/09	11/14/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/14/09	11/14/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/14/09	11/14/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/14/09	11/14/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Benzene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/14/09	11/14/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/14/09	11/14/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/14/09	11/14/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/14/09	11/14/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/14/09	11/14/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/14/09	11/14/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/14/09	11/14/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/14/09	11/14/09	JWG0903813	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905509-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/14/09	11/14/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/14/09	11/14/09	JWG0903813	
o-Xylene	ND	U	1.0	0.10	1	11/14/09	11/14/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/14/09	11/14/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/14/09	11/14/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/14/09	11/14/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/14/09	11/14/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/14/09	11/14/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/14/09	11/14/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/14/09	11/14/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/14/09	11/14/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	91	71-122	11/14/09	Acceptable
4-Bromofluorobenzene	116	75-120	11/14/09	Acceptable
Dibromofluoromethane	93	82-116	11/14/09	Acceptable
Toluene-d8	102	88-117	11/14/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903813-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/13/09	11/13/09	JWG0903813	
Vinyl Chloride	ND	U	1.0	0.25	1	11/13/09	11/13/09	JWG0903813	
Bromomethane	ND	U	1.0	0.14	1	11/13/09	11/13/09	JWG0903813	
Chloroethane	ND	U	5.0	0.19	1	11/13/09	11/13/09	JWG0903813	
Trichlorofluoromethane	ND	U	20	0.25	1	11/13/09	11/13/09	JWG0903813	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/13/09	11/13/09	JWG0903813	
Acetone	ND	U	50	2.4	1	11/13/09	11/13/09	JWG0903813	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/13/09	11/13/09	JWG0903813	
Carbon Disulfide	ND	U	10	0.84	1	11/13/09	11/13/09	JWG0903813	
Methylene Chloride	ND	U	5.0	0.72	1	11/13/09	11/13/09	JWG0903813	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/13/09	11/13/09	JWG0903813	
Acrylonitrile	ND	U	10	0.59	1	11/13/09	11/13/09	JWG0903813	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/13/09	11/13/09	JWG0903813	
Vinyl Acetate	ND	U	10	0.60	1	11/13/09	11/13/09	JWG0903813	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/13/09	11/13/09	JWG0903813	
2-Butanone (MEK)	ND	U	10	0.56	1	11/13/09	11/13/09	JWG0903813	
Bromochloromethane	ND	U	5.0	0.14	1	11/13/09	11/13/09	JWG0903813	
Chloroform	ND	U	1.0	0.10	1	11/13/09	11/13/09	JWG0903813	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/13/09	11/13/09	JWG0903813	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/13/09	11/13/09	JWG0903813	
Benzene	ND	U	1.0	0.52	1	11/13/09	11/13/09	JWG0903813	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/13/09	11/13/09	JWG0903813	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/13/09	11/13/09	JWG0903813	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/13/09	11/13/09	JWG0903813	
Dibromomethane	ND	U	5.0	0.12	1	11/13/09	11/13/09	JWG0903813	
Bromodichloromethane	ND	U	1.0	0.10	1	11/13/09	11/13/09	JWG0903813	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/13/09	11/13/09	JWG0903813	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/13/09	11/13/09	JWG0903813	
Toluene	ND	U	1.0	0.52	1	11/13/09	11/13/09	JWG0903813	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/13/09	11/13/09	JWG0903813	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/13/09	11/13/09	JWG0903813	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/13/09	11/13/09	JWG0903813	
2-Hexanone	ND	U	25	0.36	1	11/13/09	11/13/09	JWG0903813	
Dibromochloromethane	ND	U	1.0	0.11	1	11/13/09	11/13/09	JWG0903813	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903813-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/13/09	11/13/09	JWG0903813	
Chlorobenzene	ND	U	1.0	0.15	1	11/13/09	11/13/09	JWG0903813	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/13/09	11/13/09	JWG0903813	
Ethylbenzene	ND	U	1.0	0.10	1	11/13/09	11/13/09	JWG0903813	
m,p-Xylenes	ND	U	2.0	0.22	1	11/13/09	11/13/09	JWG0903813	
o-Xylene	ND	U	1.0	0.10	1	11/13/09	11/13/09	JWG0903813	
Styrene	ND	U	1.0	0.051	1	11/13/09	11/13/09	JWG0903813	
Bromoform	ND	U	2.0	0.12	1	11/13/09	11/13/09	JWG0903813	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/13/09	11/13/09	JWG0903813	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/13/09	11/13/09	JWG0903813	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/13/09	11/13/09	JWG0903813	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/13/09	11/13/09	JWG0903813	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/13/09	11/13/09	JWG0903813	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/13/09	11/13/09	JWG0903813	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	87	71-122	11/13/09	Acceptable
4-Bromofluorobenzene	116	75-120	11/13/09	Acceptable
Dibromofluoromethane	95	82-116	11/13/09	Acceptable
Toluene-d8	105	88-117	11/13/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-6A
Lab Code: J0905509-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	113	77-150	11/12/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-6C
Lab Code: J0905509-002

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	109	77-150	11/12/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-7A
Lab Code: J0905509-003

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	111	77-150	11/12/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-7C
Lab Code: J0905509-004

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	104	77-150	11/12/09	Acceptable

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0905509
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/05/2009
Sample Matrix:	Water	**Date Received:**	11/06/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-8A	**Units:**	ug/L
Lab Code:	J0905509-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	11/12/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/05/2009
Date Received: 11/06/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-8C
Lab Code: J0905509-006

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	108	77-150	11/12/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: NA
Date Received: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: Method Blank
Lab Code: JWG0903759-4

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	**0.29**		0.020	0.0070	1	11/11/09	11/12/09	JWG0903759	
1,2-Dibromo-3-chloropropane (DBC	**0.28**		0.020	0.0057	1	11/11/09	11/12/09	JWG0903759	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	117	77-150	11/12/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/ 5/09 1525
Date Received: 11/ 6/09

Sample Name: MW-6A
Lab Code: J0905509-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/16/09 16:14
Arsenic, Total	6020	**0.68**		µg/L	0.50	0.20	1	11/12/09	11/16/09 16:14
Barium, Total	6020	**14.8**		µg/L	2.0	0.5	1	11/17/09	11/19/09 01:09
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:14
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/16/09 16:14
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:14
Cobalt, Total	6020	**0.9**	I	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:14
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:14
Iron, Total	6010B	**10200**		µg/L	50	4	1	11/11/09	11/16/09 15:40
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:14
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:15
Nickel, Total	6020	**1.3**	I	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:14
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:14
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/16/09 16:14
Sodium, Total	6010B	**23.3**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:39
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:14
Vanadium, Total	6020	**1.3**	I	µg/L	5.0	1.2	1	11/12/09	11/16/09 16:14
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/16/09 16:14

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/ 5/09 1458
Date Received: 11/ 6/09

Sample Name: MW-6C
Lab Code: J0905509-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/16/09 16:49
Arsenic, Total	6020	**0.21**	I	µg/L	0.50	0.20	1	11/12/09	11/16/09 16:49
Barium, Total	6020	**21.0**		µg/L	2.0	0.5	1	11/17/09	11/19/09 01:15
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:49
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/16/09 16:49
Chromium, Total	6020	**1**	I	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:49
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:49
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:49
Iron, Total	6010B	**479**		µg/L	50	4	1	11/11/09	11/16/09 15:45
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:49
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:17
Nickel, Total	6020	**0.3**	I	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:49
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:49
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/16/09 16:49
Sodium, Total	6010B	**4.71**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:44
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:49
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/12/09	11/16/09 16:49
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/16/09 16:49

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Sample Name: MW-7A
Lab Code: J0905509-003

Service Request: J0905509
Date Collected: 11/ 5/09 1330
Date Received: 11/ 6/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/16/09 16:54
Arsenic, Total	6020	**1.68**		µg/L	0.50	0.20	1	11/12/09	11/16/09 16:54
Barium, Total	6020	**15.4**		µg/L	2.0	0.5	1	11/17/09	11/19/09 01:20
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:54
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/16/09 16:54
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:54
Cobalt, Total	6020	**1.8**		µg/L	1.0	0.2	1	11/12/09	11/16/09 16:54
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:54
Iron, Total	6010B	**7800**		µg/L	50	4	1	11/11/09	11/16/09 15:49
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:54
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:18
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:54
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:54
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/16/09 16:54
Sodium, Total	6010B	**11.0**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:48
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:54
Vanadium, Total	6020	**1.5**	I	µg/L	5.0	1.2	1	11/12/09	11/16/09 16:54
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/16/09 16:54

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Sample Name: MW-7C
Lab Code: J0905509-004

Service Request: J0905509
Date Collected: 11/ 5/09 1255
Date Received: 11/ 6/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/16/09 16:59
Arsenic, Total	6020	**0.33**	I	µg/L	0.50	0.20	1	11/12/09	11/16/09 16:59
Barium, Total	6020	**26.0**		µg/L	2.0	0.5	1	11/17/09	11/19/09 01:25
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:59
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/16/09 16:59
Chromium, Total	6020	**0.8**	I	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:59
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:59
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:59
Iron, Total	6010B	**624**		µg/L	50	4	1	11/11/09	11/16/09 15:53
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:59
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:33
Nickel, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	11/12/09	11/16/09 16:59
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 16:59
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/16/09 16:59
Sodium, Total	6010B	**5.93**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:52
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 16:59
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/12/09	11/16/09 16:59
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/16/09 16:59

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/ 5/09 0912
Date Received: 11/ 6/09

Sample Name: MW-8A
Lab Code: J0905509-005

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/16/09 17:04
Arsenic, Total	6020	**1.12**		µg/L	0.50	0.20	1	11/12/09	11/16/09 17:04
Barium, Total	6020	**49.3**		µg/L	2.0	0.5	1	11/17/09	11/19/09 01:30
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 17:04
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/16/09 17:04
Chromium, Total	6020	**5.2**		µg/L	2.0	0.8	1	11/12/09	11/16/09 17:04
Cobalt, Total	6020	**1.5**		µg/L	1.0	0.2	1	11/12/09	11/16/09 17:04
Copper, Total	6020	**3.9**		µg/L	2.0	0.3	1	11/12/09	11/16/09 17:04
Iron, Total	6010B	**2510**		µg/L	50	4	1	11/11/09	11/16/09 15:57
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 17:04
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:34
Nickel, Total	6020	**3.6**		µg/L	2.0	0.3	1	11/12/09	11/16/09 17:04
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 17:04
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/16/09 17:04
Sodium, Total	6010B	**26.0**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:57
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 17:04
Vanadium, Total	6020	**2.4**	I	µg/L	5.0	1.2	1	11/12/09	11/16/09 17:04
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/16/09 17:04

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Sample Name: MW-8C
Lab Code: J0905509-006

Service Request: J0905509
Date Collected: 11/ 5/09 0945
Date Received: 11/ 6/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/16/09 17:09
Arsenic, Total	6020	**0.24**	I	µg/L	0.50	0.20	1	11/12/09	11/16/09 17:09
Barium, Total	6020	**13.9**		µg/L	2.0	0.5	1	11/17/09	11/19/09 01:35
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 17:09
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/16/09 17:09
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 17:09
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 17:09
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 17:09
Iron, Total	6010B	**745**		µg/L	50	4	1	11/11/09	11/16/09 16:01
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 17:09
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:36
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 17:09
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 17:09
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/16/09 17:09
Sodium, Total	6010B	**5.59**		mg/L	0.50	0.02	1	11/11/09	11/16/09 16:00
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 17:09
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	11/12/09	11/16/09 17:09
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/16/09 17:09

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905509
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J0905509-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/12/09	11/16/09 15:30
Arsenic, Total	6020	**0.40**	I	µg/L	0.50	0.20	1	11/12/09	11/16/09 15:30
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	11/17/09	11/19/09 00:49
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 15:30
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/12/09	11/16/09 15:30
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 15:30
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 15:30
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 15:30
Iron, Total	6010B	ND	U	µg/L	50	4	1	11/11/09	11/16/09 14:21
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 15:30
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/17/09	11/18/09 16:08
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/12/09	11/16/09 15:30
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/12/09	11/16/09 15:30
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/12/09	11/16/09 15:30
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	11/11/09	11/16/09 14:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/12/09	11/16/09 15:30
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/12/09	11/16/09 15:30
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/12/09	11/16/09 15:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905509
Date Collected : 11/05/09
Date Received : 11/06/09

Inorganic Parameters

Sample Name : MW-6A
Lab Code : J0905509-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	1.6	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	62	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/06/09 14:18	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:15	110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905509
Date Collected : 11/05/09
Date Received : 11/06/09

Inorganic Parameters

Sample Name : MW-6C
Lab Code : J0905509-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.090	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	6.3	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/06/09 14:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:15	34	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905509
Date Collected : 11/05/09
Date Received : 11/06/09

Inorganic Parameters

Sample Name : MW-7A
Lab Code : J0905509-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	3.5	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	31	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/06/09 14:48	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:15	58	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905509
Date Collected : 11/05/09
Date Received : 11/06/09

Inorganic Parameters

Sample Name : MW-7C
Lab Code : J0905509-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.060	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	8.8	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/06/09 15:03	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:15	37	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905509
Date Collected : 11/05/09
Date Received : 11/06/09

Inorganic Parameters

Sample Name : MW-8A
Lab Code : J0905509-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	4.9	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	63	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/06/09 15:18	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:15	150	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905509
Date Collected : 11/05/09
Date Received : 11/06/09

Inorganic Parameters

Sample Name : MW-8C
Lab Code : J0905509-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.080	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	8.5	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/06/09 15:33	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:15	35	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905509
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0905509-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/06/09 06:57	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/06/09 06:57	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:15	U	

Report By: Palimi

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-6A	J0905509-001	91	113	94	106
MW-6C	J0905509-002	91	118	94	104
MW-7A	J0905509-003	89	115	91	103
MW-7C	J0905509-004	89	117	94	102
MW-8A	J0905509-005	89	115	93	107
MW-8C	J0905509-006	87	116	96	105
Trip Blank	J0905509-007	91	116	93	102
Method Blank	JWG0903813-4	87	116	95	105
Lab Control Sample	JWG0903813-3	91	113	97	103

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Extracted: 11/13/2009
Date Analyzed: 11/13/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903813

	Lab Control Sample JWG0903813-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	18.6	20.0	93	67-135
Vinyl Chloride	18.4	20.0	92	78-132
Bromomethane	17.9	20.0	90	79-130
Chloroethane	18.6	20.0	93	74-126
Trichlorofluoromethane	20.6	20.0	103	74-134
1,1-Dichloroethene	21.4	20.0	107	78-130
Acetone	91.7	100	92	67-133
Iodomethane (Methyl Iodide)	99.2	100	99	68-134
Carbon Disulfide	94.6	100	95	76-138
Methylene Chloride	20.1	20.0	100	72-124
trans-1,2-Dichloroethene	21.1	20.0	106	77-124
Acrylonitrile	95.1	100	95	77-127
1,1-Dichloroethane	20.2	20.0	101	80-128
Vinyl Acetate	114	100	114	61-148
cis-1,2-Dichloroethene	20.3	20.0	101	80-126
2-Butanone (MEK)	88.1	100	88	73-127
Bromochloromethane	19.1	20.0	96	79-129
Chloroform	20.0	20.0	100	83-124
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	79-124
Carbon Tetrachloride	19.9	20.0	100	81-125
Benzene	19.8	20.0	99	79-119
1,2-Dichloroethane (EDC)	19.9	20.0	99	80-124
Trichloroethene (TCE)	20.0	20.0	100	76-124
1,2-Dichloropropane	20.0	20.0	100	79-123
Dibromomethane	18.9	20.0	94	83-123
Bromodichloromethane	19.0	20.0	95	81-123
cis-1,3-Dichloropropene	19.7	20.0	98	86-123
4-Methyl-2-pentanone (MIBK)	90.3	100	90	72-136
Toluene	19.9	20.0	100	86-117
trans-1,3-Dichloropropene	18.8	20.0	94	83-124
1,1,2-Trichloroethane	19.8	20.0	99	86-114
Tetrachloroethene (PCE)	21.0	20.0	105	80-121
2-Hexanone	93.2	100	93	71-138
Dibromochloromethane	18.6	20.0	93	82-121
1,2-Dibromoethane (EDB)	18.7	20.0	94	88-117
Chlorobenzene	19.1	20.0	95	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Extracted: 11/13/2009
Date Analyzed: 11/13/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903813

Analyte Name	Lab Control Sample JWG0903813-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	17.8	20.0	89	85-117
Ethylbenzene	19.8	20.0	99	90-118
m,p-Xylenes	39.5	40.0	99	86-121
o-Xylene	19.2	20.0	96	89-119
Styrene	18.9	20.0	95	89-122
Bromoform	15.4	20.0	77	68-129
1,1,2,2-Tetrachloroethane	18.6	20.0	93	83-120
1,2,3-Trichloropropane	17.5	20.0	88	83-123
1,4-Dichlorobenzene	19.8	20.0	99	83-113
trans-1,4-Dichloro-2-butene	16.6	20.0	83	53-143
1,2-Dichlorobenzene	19.2	20.0	96	84-115
1,2-Dibromo-3-chloropropane (DBCP	15.2	20.0	76	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-6A	J0905509-001	113
MW-6C	J0905509-002	109
MW-7A	J0905509-003	111
MW-7C	J0905509-004	104
MW-8A	J0905509-005	112
MW-8C	J0905509-006	108
Method Blank	JWG0903759-4	117
MW-6AMS	JWG0903759-1	115
MW-6ADMS	JWG0903759-2	117
Lab Control Sample	JWG0903759-3	113

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Extracted: 11/11/2009
Date Analyzed: 11/12/2009

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-6A
Lab Code: J0905509-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8011

Level: Low
Extraction Lot: JWG0903759

Analyte Name	Sample Result	MW-6AMS JWG0903759-1 Matrix Spike			MW-6ADMS JWG0903759-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.275	0.250	110	0.278	0.250	111	65-135	1	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.270	0.250	108	0.278	0.250	111	65-135	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Extracted: 11/11/2009
Date Analyzed: 11/12/2009

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903759

Analyte Name	Lab Control Sample JWG0903759-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.279	0.250	112	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.274	0.250	110	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/5/09
Date Received: 11/6/09
Date Analyzed: 11/16/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-6A
Lab Code: J0905509-001

Units: µg/L
Basis: NA

Analytical Method: 6020
Prep Method: EPA 3020A

Analyte Name	Sample Result	Matrix Spike J0905509-MS1 Result	Amount	% Rec		Duplicate Matrix Spike J0905509-DMS1 Result	Amount	% Rec		% Rec Limits	RPD	RPD Limit
Antimony, Total	ND	49.3	50.0	99		51.1	50.0	102		75 - 125	4	20
Arsenic, Total	0.68	47.2	50.0	93		49.0	50.0	97		75 - 125	4	20
Beryllium, Total	ND	46.5	50.0	93		48.1	50.0	96		75 - 125	3	20
Cadmium, Total	ND	47.2	50.0	94		49.3	50.0	99		75 - 125	4	20
Chromium, Total	ND	48.2	50.0	96		50.2	50.0	100		75 - 125	4	20
Cobalt, Total	0.9	48.5	50.0	95		50.4	50.0	99		75 - 125	4	20
Copper, Total	ND	45.1	50.0	90		47.2	50.0	94		75 - 125	4	20
Lead, Total	ND	50.9	50.0	102		53.1	50.0	106		75 - 125	4	20
Nickel, Total	1.3	47.6	50.0	93		48.7	50.0	95		75 - 125	2	20
Selenium, Total	ND	32.9	50.0	66	*	33.0	50.0	66	*	75 - 125	0	20
Silver, Total	ND	49.1	50.0	98		49.8	50.0	100		75 - 125	1	20
Thallium, Total	ND	50.5	50.0	101		52.3	50.0	105		75 - 125	3	20
Vanadium, Total	1.3	49.8	50.0	97		52.5	50.0	102		75 - 125	5	20
Zinc, Total	ND	87.6	100	88		92.1	100	92		75 - 125	5	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Collected: 11/5/09
Date Received: 11/6/09
Date Analyzed: 11/18/09

Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name: MW-7A
Lab Code: J0905509-003

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J0905509-MS2 Result	Amount	% Rec		Duplicate Matrix Spike J0905509-DMS2 Result	Amount	% Rec		% Rec Limits	RPD	RPD Limit
Mercury, Total	ND	2.16	5.00	43	*	2.19	5.00	44	*	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Analyzed: 11/16/09 - 11/19/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905509-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**49.1**	50.0	98	80 - 120
Arsenic, Total	6020	**48.3**	50.0	97	80 - 120
Barium, Total	6020	**49.9**	50.0	100	80 - 120
Beryllium, Total	6020	**48.0**	50.0	96	80 - 120
Cadmium, Total	6020	**48.0**	50.0	96	80 - 120
Chromium, Total	6020	**50.1**	50.0	100	80 - 120
Cobalt, Total	6020	**50.3**	50.0	101	80 - 120
Copper, Total	6020	**49.2**	50.0	98	80 - 120
Iron, Total	6010B	**1910**	2000	95	80 - 120
Lead, Total	6020	**51.3**	50.0	103	80 - 120
Mercury, Total	7470A	**5.52**	5.00	110	80 - 120
Nickel, Total	6020	**49.7**	50.0	99	80 - 120
Selenium, Total	6020	**43.7**	50.0	87	80 - 120
Silver, Total	6020	**51.7**	50.0	103	80 - 120
Thallium, Total	6020	**50.7**	50.0	101	80 - 120
Vanadium, Total	6020	**50.6**	50.0	101	80 - 120
Zinc, Total	6020	**90.9**	100	91	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905509
Date Analyzed: 11/16/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905509-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**9.65**	10.0	97	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	GeoSyntec Consultants	**Service Request :**	J0905509
Project Name :	JED SWDF	**Date Collected :**	NA
Project Number :	FQ1512A.02	**Date Received :**	NA
Sample Matrix :	WATER	**Date Extracted :**	NA
		Date Analyzed :	11/06-10/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0905509-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	4.97	99	90-110	
Chloride	mg/L (ppm)	300.0	100	104	104	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.16	103	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.17	103	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	283	94	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosyntec Service Request # J0905509

Project: JED SWDF

Cooler received on 11/6/09 and opened on 11/6/09 by SC

COURIER: CAS (UPS) FEDEX DHL CLIENT Tracking # 1208151252 7

1	Were custody seals on outside of cooler?	(Yes)	No	N/A
2	Were seals intact, signed and dated?	(Yes)	No	N/A
3	Were custody papers properly filled out?	(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 1.8			
5	Correct Temperature?	(Yes)	No	N/A
6	Were Ice or Ice Packs present	(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A
11	Were all of the preserved bottles received with the appropriate preservative?	(Yes)	No	N/A

(HNO3) pH<2 (H2SO4) pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 (HCl) pH<2

Preservative additions noted below

12	Were all samples received within analysis holding times?	(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A
14	Where did the bottles originate?	(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

SR # : J 0905509 Date: 11/6/09 Initials: SL

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

	Bottle Code																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	40mL	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100mL	Misc.
Container	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-001	3	3					1	1	1																					
-002																														
-003																														
-004																														
-005																														
-006																														
-007		2																												
-008																														
-009																														
-010																														
-011																														
-012																														
-013																														
-014																														
-015																														
-016																														
-017																														
-018																														
-019																														
-020																														
-021																														
-022																														
-023																														
-024																														
-025																														
-026																														
-027																														
-028																														
-029																														
-030																														
-031																														
-032																														
-033																														
-034																														
-035																														
-036																														
-037																														
-038																														
-039																														
-040																														

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR # J0905509
CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A.02
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec	
14055 Riveredge Dr. Ste 300	
Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Number a [redacted]

PRESERVATIVE: 1 0 3 2 0

NUMBER OF CONTAINERS

8260 | 8011 | NH3 | Metals | TDS, Cl, NO3

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	8011	NH3	Metals	TDS, Cl, NO3
MW-6A		11-5-09	1525	GW	9	3	3	1	1	1
MW-6C			1458		9					
MW-7A			1330		9					
MW-7C			1255		9					
MW-8A			0912		9					
MW-8C			0945		9					
Trip Blank		10-28-09	1100	DI H2O	2	2				

SPECIAL INSTRUCTIONS/COMMENTS

09309 - JED-1

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_X_ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_X_ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
57					
Signature: Joe Terry	Signature: Shawn Lightsey	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Shawn Lightsey	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 11-5-09/1630	Date/Time: 11/6/09 0925	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services™ 9143 Philips Hwy, Suite 200 | Jacksonville, FL 32256 | 904.739.2277 | 904.739.2011 fax | www.caslab.com

November 19, 2009 Service Request No: J0905474

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A.02

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on November 5, 2009. For your reference, these analyses have been assigned our service request number **J0905474**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

Page 1 of 96

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

© 100% Recycled Paper

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0905474
Project:	JED SWDF	**Date Received:**	11/5/09
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Twelve water samples and two trip blanks were received for analysis at Columbia Analytical Services on 11/5/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile organics using EPA Method 8260. No problems were observed.

EDB and DBCP by GC-ECD

The samples were analyzed for EDB and DBCP using EPA Method 8011. The following observations were made regarding this delivery group.

Matrix Spike Recovery Exceptions

The upper control criterion was exceeded for the following analyte in Matrix Spike (MS) JWG0903692-1 and Matrix Spike Duplicate (MSD) JWG0903692-2: 1,2-Dibromoethane (EDB). The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

The upper control criterion was exceeded for the following analyte in Matrix Spike Duplicate (MSD) JWG0903692-2: 1,2-Dibromo-3-chloropropane (DBCP). The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data are not significantly affected. No further corrective action was appropriate.

Metals by ICP-MS/ICP-OES/CVAA

The samples were analyzed for Total and Dissolved Metals using EPA Methods 6020/6010B/7470A. No problems were observed.

Approved by _____ **Date** 11/19/09

Batch QC Notes and Discussion

Some quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

General Chemistry Parameters

The samples were analyzed for Inorganic Parameters using various EPA and Standard Methods. No problems were observed.

Approved by _____ **Date** 11/19/09

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02

Service Request: J0905474

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0905474-001	MW-11A	11/4/09	11:15
J0905474-002	MW-11C	11/4/09	11:05
J0905474-003	MW-12A	11/4/09	10:05
J0905474-004	MW-12C	11/4/09	10:05
J0905474-005	MW-13A	11/4/09	09:10
J0905474-006	MW-13C	11/4/09	08:42
J0905474-007	MW-16C	11/4/09	08:40
J0905474-008	Trip Blank	11/4/09	00:00
J0905474-009	MW-9A	11/4/09	12:15
J0905474-010	MW-9C	11/4/09	12:10
J0905474-011	MW-10A	11/4/09	13:52
J0905474-012	MW-10C	11/4/09	13:30
J0905474-013	DUP-1	11/4/09	00:00
J0905474-014	Trip Blank	11/4/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11A
Lab Code: J0905474-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	**1.1**		1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	**2.9**		1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	**1.3**		1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11A
Lab Code: J0905474-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	100	75-120	11/06/09	Acceptable
Dibromofluoromethane	91	82-116	11/06/09	Acceptable
Toluene-d8	91	88-117	11/06/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11C
Lab Code: J0905474-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11C
Lab Code: J0905474-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	93	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	98	75-120	11/06/09	Acceptable
Dibromofluoromethane	92	82-116	11/06/09	Acceptable
Toluene-d8	96	88-117	11/06/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12A
Lab Code: J0905474-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12A
Lab Code: J0905474-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	100	75-120	11/06/09	Acceptable
Dibromofluoromethane	95	82-116	11/06/09	Acceptable
Toluene-d8	95	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12C
Lab Code: J0905474-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-12C
Lab Code: J0905474-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	98	75-120	11/06/09	Acceptable
Dibromofluoromethane	95	82-116	11/06/09	Acceptable
Toluene-d8	96	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13A
Lab Code: J0905474-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	**0.32**	I	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	**0.90**	I	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13A
Lab Code: J0905474-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	98	75-120	11/06/09	Acceptable
Dibromofluoromethane	94	82-116	11/06/09	Acceptable
Toluene-d8	96	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13C
Lab Code: J0905474-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-13C
Lab Code: J0905474-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	107	75-120	11/06/09	Acceptable
Dibromofluoromethane	95	82-116	11/06/09	Acceptable
Toluene-d8	99	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16C
Lab Code: J0905474-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	**0.81**	I	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-16C
Lab Code: J0905474-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	**0.44**	I	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	99	75-120	11/06/09	Acceptable
Dibromofluoromethane	91	82-116	11/06/09	Acceptable
Toluene-d8	98	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905474-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905474-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	102	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	101	75-120	11/06/09	Acceptable
Dibromofluoromethane	101	82-116	11/06/09	Acceptable
Toluene-d8	100	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9A
Lab Code: J0905474-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	**1.2**		1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	**9.1**		1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	**1.4**		1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9A
Lab Code: J0905474-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	**1.3**		1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	**5.4**		2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	**2.5**		1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	**0.54**	I	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	102	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	100	75-120	11/06/09	Acceptable
Dibromofluoromethane	97	82-116	11/06/09	Acceptable
Toluene-d8	95	88-117	11/06/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-9C	**Units:**	ug/L
Lab Code:	J0905474-010	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9C
Lab Code: J0905474-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	97	75-120	11/06/09	Acceptable
Dibromofluoromethane	96	82-116	11/06/09	Acceptable
Toluene-d8	91	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10A
Lab Code: J0905474-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	**1.1**		1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	**2.9**		1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	**1.3**		1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10A
Lab Code: J0905474-011

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	**0.95**	I	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	99	75-120	11/06/09	Acceptable
Dibromofluoromethane	96	82-116	11/06/09	Acceptable
Toluene-d8	91	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10C
Lab Code: J0905474-012

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-10C
Lab Code: J0905474-012

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	94	75-120	11/06/09	Acceptable
Dibromofluoromethane	92	82-116	11/06/09	Acceptable
Toluene-d8	98	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP-1
Lab Code: J0905474-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	**1.2**		1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	**9.2**		1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	**0.23**	I	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	**1.4**		1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: DUP-1
Lab Code: J0905474-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	**1.5**		1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	**5.7**		2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	**2.5**		1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	**0.53**	I	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	97	75-120	11/06/09	Acceptable
Dibromofluoromethane	96	82-116	11/06/09	Acceptable
Toluene-d8	96	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905474-014

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0905474-014

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	102	75-120	11/06/09	Acceptable
Dibromofluoromethane	99	82-116	11/06/09	Acceptable
Toluene-d8	96	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903700-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
Vinyl Chloride	ND	U	1.0	0.25	1	11/06/09	11/06/09	JWG0903700	
Bromomethane	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroethane	ND	U	5.0	0.19	1	11/06/09	11/06/09	JWG0903700	
Trichlorofluoromethane	ND	U	20	0.25	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethene	ND	U	1.0	0.16	1	11/06/09	11/06/09	JWG0903700	
Acetone	ND	U	50	2.4	1	11/06/09	11/06/09	JWG0903700	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	11/06/09	11/06/09	JWG0903700	
Carbon Disulfide	ND	U	10	0.84	1	11/06/09	11/06/09	JWG0903700	
Methylene Chloride	ND	U	5.0	0.72	1	11/06/09	11/06/09	JWG0903700	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	11/06/09	11/06/09	JWG0903700	
Acrylonitrile	ND	U	10	0.59	1	11/06/09	11/06/09	JWG0903700	
1,1-Dichloroethane	ND	U	1.0	0.56	1	11/06/09	11/06/09	JWG0903700	
Vinyl Acetate	ND	U	10	0.60	1	11/06/09	11/06/09	JWG0903700	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
2-Butanone (MEK)	ND	U	10	0.56	1	11/06/09	11/06/09	JWG0903700	
Bromochloromethane	ND	U	5.0	0.14	1	11/06/09	11/06/09	JWG0903700	
Chloroform	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Carbon Tetrachloride	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Benzene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichloropropane	ND	U	1.0	0.057	1	11/06/09	11/06/09	JWG0903700	
Dibromomethane	ND	U	5.0	0.12	1	11/06/09	11/06/09	JWG0903700	
Bromodichloromethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	11/06/09	11/06/09	JWG0903700	
Toluene	ND	U	1.0	0.52	1	11/06/09	11/06/09	JWG0903700	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	11/06/09	11/06/09	JWG0903700	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	11/06/09	11/06/09	JWG0903700	
2-Hexanone	ND	U	25	0.36	1	11/06/09	11/06/09	JWG0903700	
Dibromochloromethane	ND	U	1.0	0.11	1	11/06/09	11/06/09	JWG0903700	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903700-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	11/06/09	11/06/09	JWG0903700	
Chlorobenzene	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Ethylbenzene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
m,p-Xylenes	ND	U	2.0	0.22	1	11/06/09	11/06/09	JWG0903700	
o-Xylene	ND	U	1.0	0.10	1	11/06/09	11/06/09	JWG0903700	
Styrene	ND	U	1.0	0.051	1	11/06/09	11/06/09	JWG0903700	
Bromoform	ND	U	2.0	0.12	1	11/06/09	11/06/09	JWG0903700	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	11/06/09	11/06/09	JWG0903700	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	11/06/09	11/06/09	JWG0903700	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	11/06/09	11/06/09	JWG0903700	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	11/06/09	11/06/09	JWG0903700	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	11/06/09	11/06/09	JWG0903700	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	11/06/09	11/06/09	JWG0903700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	71-122	11/06/09	Acceptable
4-Bromofluorobenzene	96	75-120	11/06/09	Acceptable
Dibromofluoromethane	92	82-116	11/06/09	Acceptable
Toluene-d8	94	88-117	11/06/09	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/04/2009
Date Received: 11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-11A
Lab Code: J0905474-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/10/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/10/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	147	77-150	11/10/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-11C	**Units:**	ug/L
Lab Code:	J0905474-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/10/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/10/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	144	77-150	11/10/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-12A	**Units:**	ug/L
Lab Code:	J0905474-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/10/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/10/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	145	77-150	11/10/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-12C	**Units:**	ug/L
Lab Code:	J0905474-004	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/10/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/10/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	146	77-150	11/10/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-13A	**Units:**	ug/L
Lab Code:	J0905474-005	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	138	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-13C	**Units:**	ug/L
Lab Code:	J0905474-006	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	136	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-16C	**Units:**	ug/L
Lab Code:	J0905474-007	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	125	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-9A	**Units:**	ug/L
Lab Code:	J0905474-009	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	115	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-9C	**Units:**	ug/L
Lab Code:	J0905474-010	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	124	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-10A	**Units:**	ug/L
Lab Code:	J0905474-011	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	MW-10C	**Units:**	ug/L
Lab Code:	J0905474-012	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	120	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	11/04/2009
Sample Matrix:	Water	**Date Received:**	11/05/2009

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	DUP-1	**Units:**	ug/L
Lab Code:	J0905474-013	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	112	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0903692-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8011		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.020	0.0070	1	11/06/09	11/09/09	JWG0903692	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.020	0.0057	1	11/06/09	11/09/09	JWG0903692	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,1,1,2-Tetrachloroethane	118	77-150	11/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1115
Date Received: 11/ 5/09

Sample Name: MW-11A
Lab Code: J0905474-001

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 07:28
Arsenic, Total	6020	**11.0**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 21:37
Barium, Total	6020	**25.5**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 07:28
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:28
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 07:28
Chromium, Total	6020	**2.2**		µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:28
Cobalt, Total	6020	**1.5**		µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:28
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:28
Iron, Total	6010B	**13300**		µg/L	50	4	1	11/11/09	11/16/09 14:28
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:28
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:12
Nickel, Total	6020	**2.7**		µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:28
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:28
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 07:28
Sodium, Total	6010B	**35.3**		mg/L	0.50	0.02	1	11/11/09	11/16/09 14:27
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:28
Vanadium, Total	6020	**2.1**	I	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 07:28
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 07:28

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1105
Date Received: 11/ 5/09

Sample Name: MW-11C
Lab Code: J0905474-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 07:33
Arsenic, Total	6020	**0.29**	I	µg/L	0.50	0.20	1	11/ 6/09	11/16/09 21:42
Barium, Total	6020	**13.5**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 07:33
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:33
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 07:33
Chromium, Total	6020	**0.9**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:33
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:33
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:33
Iron, Total	6010B	**496**		µg/L	50	4	1	11/11/09	11/16/09 14:31
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:33
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:24
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:33
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:33
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 07:33
Sodium, Total	6010B	**11.4**		mg/L	0.50	0.02	1	11/11/09	11/16/09 14:31
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:33
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 07:33
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 07:33

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1005
Date Received: 11/ 5/09

Sample Name: MW-12A
Lab Code: J0905474-003

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 07:38
Arsenic, Total	6020	**1.97**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 21:47
Barium, Total	6020	**12.0**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 07:38
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:38
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 07:38
Chromium, Total	6020	**1.4**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:38
Cobalt, Total	6020	**0.9**	I	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:38
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:38
Iron, Total	6010B	**1240**		µg/L	50	4	1	11/11/09	11/16/09 14:54
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:38
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:25
Nickel, Total	6020	**2.0**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:38
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:38
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 07:38
Sodium, Total	6010B	**10.2**		mg/L	0.50	0.02	1	11/11/09	11/16/09 14:54
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:38
Vanadium, Total	6020	**2.0**	I	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 07:38
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 07:38

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1005
Date Received: 11/ 5/09

Sample Name: MW-12C
Lab Code: J0905474-004

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 07:43
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	11/ 6/09	11/16/09 21:52
Barium, Total	6020	**17.0**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 07:43
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:43
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 07:43
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:43
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:43
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:43
Iron, Total	6010B	**617**		µg/L	50	4	1	11/11/09	11/16/09 14:58
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:43
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:27
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:43
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:43
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 07:43
Sodium, Total	6010B	**5.49**		mg/L	0.50	0.02	1	11/11/09	11/16/09 14:58
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:43
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 07:43
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 07:43

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 0910
Date Received: 11/ 5/09

Sample Name: MW-13A
Lab Code: J0905474-005

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 07:48
Arsenic, Total	6020	**16.4**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 21:57
Barium, Total	6020	**8.1**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 07:48
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:48
Cadmium, Total	6020	**0.25**	I	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 07:48
Chromium, Total	6020	**3.2**		µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:48
Cobalt, Total	6020	**0.6**	I	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:48
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:48
Iron, Total	6010B	**14100**		µg/L	50	4	1	11/11/09	11/16/09 15:01
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:48
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:28
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:48
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:48
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 07:48
Sodium, Total	6010B	**7.42**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:01
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:48
Vanadium, Total	6020	**3.0**	I	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 07:48
Zinc, Total	6020	**30**		µg/L	10	4	1	11/ 6/09	11/12/09 07:48

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 0842
Date Received: 11/ 5/09

Sample Name: MW-13C
Lab Code: J0905474-006

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 07:53
Arsenic, Total	6020	**0.29**	I	µg/L	0.50	0.20	1	11/ 6/09	11/16/09 22:02
Barium, Total	6020	**18.5**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 07:53
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:53
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 07:53
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:53
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:53
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:53
Iron, Total	6010B	**533**		µg/L	50	4	1	11/11/09	11/16/09 15:05
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:53
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:30
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 07:53
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 07:53
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 07:53
Sodium, Total	6010B	**7.76**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:05
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 07:53
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 07:53
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 07:53

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 0840
Date Received: 11/ 5/09

Sample Name: MW-16C
Lab Code: J0905474-007

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 08:07
Arsenic, Total	6020	**0.56**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 22:16
Barium, Total	6020	**23.6**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 08:07
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:07
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 08:07
Chromium, Total	6020	**1.2**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:07
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:07
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:07
Iron, Total	6010B	**1420**		µg/L	50	4	1	11/11/09	11/16/09 15:09
Lead, Total	6020	**0.4**	I	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:07
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:31
Nickel, Total	6020	**0.6**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:07
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:07
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 08:07
Sodium, Total	6010B	**11.4**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:09
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:07
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 08:07
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 08:07

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1215
Date Received: 11/ 5/09

Sample Name: MW-9A
Lab Code: J0905474-009

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 08:12
Arsenic, Total	6020	**1.51**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 22:21
Barium, Total	6020	**2.4**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 08:12
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:12
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 08:12
Chromium, Total	6020	**2.0**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:12
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:12
Copper, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:12
Iron, Total	6010B	**650**		µg/L	50	4	1	11/11/09	11/16/09 15:13
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:12
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:33
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:12
Selenium, Total	6020	**1.4**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:12
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 08:12
Sodium, Total	6010B	**13.2**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:12
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:12
Vanadium, Total	6020	**1.4**	I	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 08:12
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 08:12

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1210
Date Received: 11/ 5/09

Sample Name: MW-9C
Lab Code: J0905474-010

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 08:17
Arsenic, Total	6020	**0.27**	I	µg/L	0.50	0.20	1	11/ 6/09	11/16/09 22:26
Barium, Total	6020	**45.7**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 08:17
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:17
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 08:17
Chromium, Total	6020	**1.3**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:17
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:17
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:17
Iron, Total	6010B	**690**		µg/L	50	4	1	11/11/09	11/16/09 15:17
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:17
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:37
Nickel, Total	6020	**7.6**		µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:17
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:17
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 08:17
Sodium, Total	6010B	**6.54**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:17
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:17
Vanadium, Total	6020	**2.8**	I	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 08:17
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 08:17

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1352
Date Received: 11/ 5/09

Sample Name: MW-10A
Lab Code: J0905474-011

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 08:22
Arsenic, Total	6020	**1.81**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 22:31
Barium, Total	6020	**4.0**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 08:22
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:22
Cadmium, Total	6020	**0.15**	I	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 08:22
Chromium, Total	6020	**4.2**		µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:22
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:22
Copper, Total	6020	**1.1**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:22
Iron, Total	6010B	**676**		µg/L	50	4	1	11/11/09	11/16/09 15:21
Lead, Total	6020	**0.8**	I	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:22
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:38
Nickel, Total	6020	**1.2**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:22
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:22
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 08:22
Sodium, Total	6010B	**8.72**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:22
Vanadium, Total	6020	**2.4**	I	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 08:22
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 08:22

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 1330
Date Received: 11/ 5/09

Sample Name: MW-10C
Lab Code: J0905474-012

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 08:27
Arsenic, Total	6020	**0.63**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 22:36
Barium, Total	6020	**21.4**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 08:27
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:27
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 08:27
Chromium, Total	6020	**1.5**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:27
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:27
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:27
Iron, Total	6010B	**845**		µg/L	50	4	1	11/11/09	11/16/09 15:26
Lead, Total	6020	**0.3**	I	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:27
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:40
Nickel, Total	6020	**0.5**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:27
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:27
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 08:27
Sodium, Total	6010B	**6.56**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:25
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:27
Vanadium, Total	6020	**2.2**	I	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 08:27
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 08:27

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/ 4/09 0000
Date Received: 11/ 5/09

Sample Name: DUP-1
Lab Code: J0905474-013

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 08:32
Arsenic, Total	6020	**1.50**		µg/L	0.50	0.20	1	11/ 6/09	11/16/09 22:41
Barium, Total	6020	**2.3**		µg/L	2.0	0.5	1	11/ 6/09	11/12/09 08:32
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:32
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 08:32
Chromium, Total	6020	**2.1**		µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:32
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:32
Copper, Total	6020	**0.4**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:32
Iron, Total	6010B	**647**		µg/L	50	4	1	11/11/09	11/16/09 15:29
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:32
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 16:41
Nickel, Total	6020	**0.8**	I	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 08:32
Selenium, Total	6020	**1.2**	I	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 08:32
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 08:32
Sodium, Total	6010B	**13.5**		mg/L	0.50	0.02	1	11/11/09	11/16/09 15:29
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 08:32
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 08:32
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 08:32

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	J0905474-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
Antimony, Total	6020	ND	U	µg/L	2.0	0.4	1	11/ 6/09	11/12/09 06:10
Arsenic, Total	6020	ND	U	µg/L	0.50	0.20	1	11/ 6/09	11/16/09 20:18
Barium, Total	6020	ND	U	µg/L	2.0	0.5	1	11/ 6/09	11/12/09 06:10
Beryllium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 06:10
Cadmium, Total	6020	ND	U	µg/L	0.50	0.12	1	11/ 6/09	11/12/09 06:10
Chromium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 06:10
Cobalt, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 06:10
Copper, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 06:10
Iron, Total	6010B	ND	U	µg/L	50	4	1	11/11/09	11/16/09 14:21
Lead, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 06:10
Mercury, Total	7470A	ND	U	µg/L	0.50	0.08	1	11/ 9/09	11/10/09 15:52
Nickel, Total	6020	ND	U	µg/L	2.0	0.3	1	11/ 6/09	11/12/09 06:10
Selenium, Total	6020	ND	U	µg/L	2.0	0.8	1	11/ 6/09	11/12/09 06:10
Silver, Total	6020	ND	U	µg/L	0.50	0.08	1	11/ 6/09	11/12/09 06:10
Sodium, Total	6010B	ND	U	mg/L	0.50	0.02	1	11/11/09	11/16/09 14:20
Thallium, Total	6020	ND	U	µg/L	1.0	0.2	1	11/ 6/09	11/12/09 06:10
Vanadium, Total	6020	ND	U	µg/L	5.0	1.2	1	11/ 6/09	11/12/09 06:10
Zinc, Total	6020	ND	U	µg/L	10	4	1	11/ 6/09	11/12/09 06:10

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-11A
Lab Code : J0905474-001
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:15	6.6	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	79	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 15:10	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	20	9.6	2.5	11/09/09 15:15	210	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-11C
Lab Code : J0905474-002
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.040	i
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	18	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 15:25	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	62	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-12A
Lab Code : J0905474-003
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.31	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 15:40	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	72	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-12C
Lab Code : J0905474-004
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.060	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	9.1	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 15:55	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	33	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-13A
Lab Code : J0905474-005
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	1.2	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	9.8	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 16:10	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-13C
Lab Code : J0905474-006
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.080	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 16:25	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	40	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-16C
Lab Code : J0905474-007
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.10	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	22	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 16:40	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	71	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-9A
Lab Code : J0905474-009
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.5	0.1	10	11/10/09 13:55	11	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	30	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 16:55	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:10	140	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-9C
Lab Code : J0905474-010
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.30	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	13	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 17:10	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:10	93	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-10A
Lab Code : J0905474-011
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	7.1	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	8.2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 17:25	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:10	130	

Report By:Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : MW-10C
Lab Code : J0905474-012
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	0.090	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	8.2	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 18:26	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:10	43	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09

Inorganic Parameters

Sample Name : DUP-1
Lab Code : J0905474-013
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.5	0.1	10	11/10/09 13:55	11	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	30	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 18:41	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:10	140	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : NA
Date Received : NA

Inorganic Parameters

Sample Name : Method Blank
Lab Code : J0905474-MB
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:15	U	
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.01	1	11/10/09 13:55	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	U	
Chloride	mg/L (ppm)	300.0	0.2	0.031	1	11/05/09 11:53	U	
Nitrate as Nitrogen	mg/L (ppm)	300.0	0.2	0.038	1	11/05/09 11:53	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/10/09 15:10	U	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	4.8	1	11/09/09 15:15	U	

Report By: Palimi

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-11A	J0905474-001	94	100	91	91
MW-11C	J0905474-002	93	98	92	96
MW-12A	J0905474-003	96	100	95	95
MW-12C	J0905474-004	96	98	95	96
MW-13A	J0905474-005	96	98	94	96
MW-13C	J0905474-006	99	107	95	99
MW-16C	J0905474-007	92	99	91	98
Trip Blank	J0905474-008	102	101	101	100
MW-9A	J0905474-009	102	100	97	95
MW-9C	J0905474-010	96	97	96	91
MW-10A	J0905474-011	100	99	96	91
MW-10C	J0905474-012	98	94	92	98
DUP-1	J0905474-013	100	97	96	96
Trip Blank	J0905474-014	100	102	99	96
Method Blank	JWG0903700-4	94	96	92	94
MW-11CMS	JWG0903700-1	96	96	92	95
MW-11CDMS	JWG0903700-2	95	98	92	97
Lab Control Sample	JWG0903700-3	96	98	95	97

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	71-122
Sur2 =	4-Bromofluorobenzene	75-120
Sur3 =	Dibromofluoromethane	82-116
Sur4 =	Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Extracted: 11/07/2009
Date Analyzed: 11/07/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11C
Lab Code: J0905474-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0903700

Analyte Name	Sample Result	MW-11CMS JWG0903700-1 Matrix Spike			MW-11CDMS JWG0903700-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Chloromethane	ND	20.5	20.0	102	20.3	20.0	102	73-139	1	30
Vinyl Chloride	ND	20.5	20.0	103	20.6	20.0	103	78-141	0	30
Bromomethane	ND	16.6	20.0	83	17.4	20.0	87	78-129	5	30
Chloroethane	ND	23.3	20.0	117	24.1	20.0	120	76-129	3	30
Trichlorofluoromethane	ND	22.8	20.0	114	22.7	20.0	114	81-133	0	30
1,1-Dichloroethene	ND	21.8	20.0	109	22.3	20.0	111	79-133	2	30
Acetone	ND	98.2	100	98	101	100	101	56-139	3	30
Iodomethane (Methyl Iodide)	ND	112	100	112	118	100	118	74-134	6	30
Carbon Disulfide	ND	100	100	100	104	100	104	71-146	4	30
Methylene Chloride	ND	19.9	20.0	100	20.3	20.0	101	75-123	2	30
trans-1,2-Dichloroethene	ND	21.3	20.0	107	20.8	20.0	104	76-125	2	30
Acrylonitrile	ND	105	100	105	105	100	105	68-131	0	30
1,1-Dichloroethane	ND	21.4	20.0	107	20.9	20.0	105	78-125	2	30
Vinyl Acetate	ND	96.7	100	97	94.3	100	94	43-163	3	30
cis-1,2-Dichloroethene	ND	19.6	20.0	98	20.1	20.0	100	75-127	3	30
2-Butanone (MEK)	ND	99.9	100	100	101	100	101	63-134	1	30
Bromochloromethane	ND	21.7	20.0	108	21.3	20.0	106	80-124	2	30
Chloroform	ND	21.3	20.0	106	21.2	20.0	106	81-124	0	30
1,1,1-Trichloroethane (TCA)	ND	21.5	20.0	108	21.8	20.0	109	76-130	2	30
Carbon Tetrachloride	ND	20.8	20.0	104	22.1	20.0	110	76-131	6	30
Benzene	ND	20.2	20.0	101	20.3	20.0	102	78-123	0	30
1,2-Dichloroethane (EDC)	ND	20.3	20.0	101	20.9	20.0	104	74-126	3	30
Trichloroethene (TCE)	ND	20.0	20.0	100	20.4	20.0	102	77-128	2	30
1,2-Dichloropropane	ND	19.6	20.0	98	20.8	20.0	104	77-122	6	30
Dibromomethane	ND	21.6	20.0	108	21.4	20.0	107	78-124	1	30
Bromodichloromethane	ND	19.6	20.0	98	19.0	20.0	95	79-125	3	30
cis-1,3-Dichloropropene	ND	18.5	20.0	93	19.0	20.0	95	77-117	3	30
4-Methyl-2-pentanone (MIBK)	ND	99.3	100	99	94.0	100	94	65-138	5	30
Toluene	ND	20.1	20.0	101	19.5	20.0	98	86-119	3	30
trans-1,3-Dichloropropene	ND	18.0	20.0	90	19.2	20.0	96	75-120	6	30
1,1,2-Trichloroethane	ND	19.8	20.0	99	18.8	20.0	94	77-124	5	30
Tetrachloroethene (PCE)	ND	19.0	20.0	95	19.7	20.0	98	79-123	4	30
2-Hexanone	ND	94.1	100	94	101	100	101	63-142	7	30
Dibromochloromethane	ND	19.4	20.0	97	18.7	20.0	93	78-124	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Extracted: 11/07/2009
Date Analyzed: 11/07/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-11C
Lab Code: J0905474-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0903700

Analyte Name	Sample Result	MW-11CMS JWG0903700-1 Matrix Spike			MW-11CDMS JWG0903700-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	20.5	20.0	102	20.9	20.0	104	81-119	2	30
Chlorobenzene	ND	18.7	20.0	93	19.5	20.0	97	81-120	4	30
1,1,1,2-Tetrachloroethane	ND	19.2	20.0	96	19.7	20.0	98	82-118	2	30
Ethylbenzene	ND	20.3	20.0	102	20.3	20.0	102	87-122	0	30
m,p-Xylenes	ND	39.7	40.0	99	40.9	40.0	102	82-120	3	30
o-Xylene	ND	20.0	20.0	100	19.9	20.0	99	85-119	1	30
Styrene	ND	19.7	20.0	99	19.0	20.0	95	84-126	4	30
Bromoform	ND	17.2	20.0	86	17.8	20.0	89	70-129	4	30
1,1,2,2-Tetrachloroethane	ND	18.4	20.0	92	18.8	20.0	94	72-127	2	30
1,2,3-Trichloropropane	ND	19.9	20.0	99	18.9	20.0	94	76-123	5	30
1,4-Dichlorobenzene	ND	18.8	20.0	94	18.8	20.0	94	75-115	0	30
trans-1,4-Dichloro-2-butene	ND	17.1	20.0	85	18.1	20.0	91	22-135	6	30
1,2-Dichlorobenzene	ND	19.0	20.0	95	20.2	20.0	101	77-116	6	30
1,2-Dibromo-3-chloropropane (DBCP	ND	18.2	20.0	91	20.4	20.0	102	54-120	11	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Extracted: 11/06/2009
Date Analyzed: 11/06/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903700

	Lab Control Sample JWG0903700-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Chloromethane	20.0	20.0	100	67-135
Vinyl Chloride	20.5	20.0	102	78-132
Bromomethane	21.9	20.0	110	79-130
Chloroethane	22.9	20.0	114	74-126
Trichlorofluoromethane	21.5	20.0	108	74-134
1,1-Dichloroethene	20.9	20.0	105	78-130
Acetone	98.5	100	99	67-133
Iodomethane (Methyl Iodide)	116	100	116	68-134
Carbon Disulfide	101	100	101	76-138
Methylene Chloride	20.6	20.0	103	72-124
trans-1,2-Dichloroethene	21.0	20.0	105	77-124
Acrylonitrile	101	100	101	77-127
1,1-Dichloroethane	20.7	20.0	104	80-128
Vinyl Acetate	112	100	112	61-148
cis-1,2-Dichloroethene	20.5	20.0	102	80-126
2-Butanone (MEK)	97.5	100	98	73-127
Bromochloromethane	21.1	20.0	105	79-129
Chloroform	20.9	20.0	104	83-124
1,1,1-Trichloroethane (TCA)	21.1	20.0	106	79-124
Carbon Tetrachloride	21.3	20.0	107	81-125
Benzene	20.3	20.0	102	79-119
1,2-Dichloroethane (EDC)	20.6	20.0	103	80-124
Trichloroethene (TCE)	20.7	20.0	104	76-124
1,2-Dichloropropane	20.2	20.0	101	79-123
Dibromomethane	21.2	20.0	106	83-123
Bromodichloromethane	20.2	20.0	101	81-123
cis-1,3-Dichloropropene	19.4	20.0	97	86-123
4-Methyl-2-pentanone (MIBK)	91.5	100	92	72-136
Toluene	20.3	20.0	102	86-117
trans-1,3-Dichloropropene	19.3	20.0	96	83-124
1,1,2-Trichloroethane	19.4	20.0	97	86-114
Tetrachloroethene (PCE)	20.3	20.0	101	80-121
2-Hexanone	93.7	100	94	71-138
Dibromochloromethane	19.8	20.0	99	82-121
1,2-Dibromoethane (EDB)	19.9	20.0	99	88-117
Chlorobenzene	19.6	20.0	98	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Extracted: 11/06/2009
Date Analyzed: 11/06/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903700

Analyte Name	Lab Control Sample JWG0903700-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.1	20.0	101	85-117
Ethylbenzene	20.2	20.0	101	90-118
m,p-Xylenes	40.4	40.0	101	86-121
o-Xylene	20.1	20.0	101	89-119
Styrene	19.8	20.0	99	89-122
Bromoform	17.8	20.0	89	68-129
1,1,2,2-Tetrachloroethane	18.5	20.0	92	83-120
1,2,3-Trichloropropane	18.6	20.0	93	83-123
1,4-Dichlorobenzene	18.9	20.0	95	83-113
trans-1,4-Dichloro-2-butene	18.6	20.0	93	53-143
1,2-Dichlorobenzene	19.5	20.0	97	84-115
1,2-Dibromo-3-chloropropane (DBCP	19.2	20.0	96	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474

Surrogate Recovery Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method: METHOD
Analysis Method: 8011

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	
MW-11A	J0905474-001	147	
MW-11C	J0905474-002	144	
MW-12A	J0905474-003	145	
MW-12C	J0905474-004	146	
MW-13A	J0905474-005	138	
MW-13C	J0905474-006	136	
MW-16C	J0905474-007	125	
MW-9A	J0905474-009	115	
MW-9C	J0905474-010	124	
MW-10A	J0905474-011	112	
MW-10C	J0905474-012	120	
DUP-1	J0905474-013	112	
Method Blank	JWG0903692-4	118	
MW-11AMS	JWG0903692-1	150	
MW-11ADMS	JWG0903692-2	151	*
Lab Control Sample	JWG0903692-3	121	

Surrogate Recovery Control Limits (%)

Sur1 = 1,1,1,2-Tetrachloroethane 77-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Extracted: 11/06/2009
Date Analyzed: 11/10/2009

Matrix Spike/Duplicate Matrix Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Sample Name: MW-11A
Lab Code: J0905474-001

Extraction Method: METHOD
Analysis Method: 8011

Units: ug/L
Basis: NA

Level: Low
Extraction Lot: JWG0903692

Analyte Name	Sample Result	MW-11AMS JWG0903692-1 Matrix Spike			MW-11ADMS JWG0903692-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	0.386	0.250	154 *	0.372	0.250	149 *	65-135	4	20
1,2-Dibromo-3-chloropropane (DBCP	ND	0.333	0.250	133	0.339	0.250	136 *	65-135	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	J0905474
Project:	JED SWDF/FQ1512A.02	**Date Extracted:**	11/06/2009
Sample Matrix:	Water	**Date Analyzed:**	11/09/2009

Lab Control Spike Summary
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by GC-ECD

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8011	**Basis:**	NA
		Level:	Low
		Extraction Lot:	JWG0903692

	Lab Control Sample JWG0903692-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,2-Dibromoethane (EDB)	0.284	0.250	114	70-130
1,2-Dibromo-3-chloropropane (DBCP	0.297	0.250	119	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/4/09
Date Received: 11/5/09
Date Analyzed: 11/10/09

Matrix Spike Summary
Mercury, Total in Liquid Waste (Manual Cold-Vapor Technique)

Sample Name: MW-11A
Lab Code: J0905474-001

Units: µg/L
Basis: NA

Analytical Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Matrix Spike J0905474-MS1 Result	Amount	% Rec	Duplicate Matrix Spike J0905474-DMS1 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury, Total	ND	4.33	5.00	87	4.21	5.00	84	75 - 125	3	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/4/09
Date Received: 11/5/09
Date Analyzed: 11/16/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-11C
Lab Code: J0905474-002

Units: µg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

Analyte Name	Sample Result	Matrix Spike J0905474-MS2 Result	Amount	% Rec	Duplicate Matrix Spike J0905474-DMS2 Result	Amount	% Rec	% Rec Limits	RPD	RPD Limit
Iron, Total	496	2380	2000	94	2370	2000	94	75 - 125	1	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Collected: 11/4/09
Date Received: 11/5/09
Date Analyzed: 11/16/09

Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-11C
Lab Code: J0905474-002

Units: mg/L
Basis: NA

Analytical Method: 6010B
Prep Method: EPA 3010A

		Matrix Spike			Duplicate Matrix Spike					
	Sample	J0905474-MS2			J0905474-DMS2			% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Sodium, Total	11.4	20.9	10.0	95	20.8	10.0	94	75 - 125	0	20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Analyzed: 11/10/09 - 11/16/09

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905474-LCS Result	Expected	% Rec	% Rec Limits
Antimony, Total	6020	**50.2**	50.0	100	80 - 120
Arsenic, Total	6020	**49.8**	50.0	100	80 - 120
Barium, Total	6020	**53.1**	50.0	106	80 - 120
Beryllium, Total	6020	**49.5**	50.0	99	80 - 120
Cadmium, Total	6020	**49.6**	50.0	99	80 - 120
Chromium, Total	6020	**54.3**	50.0	109	80 - 120
Cobalt, Total	6020	**52.9**	50.0	106	80 - 120
Copper, Total	6020	**52.0**	50.0	104	80 - 120
Iron, Total	6010B	**1910**	2000	95	80 - 120
Lead, Total	6020	**54.4**	50.0	109	80 - 120
Mercury, Total	7470A	**5.08**	5.00	102	80 - 120
Nickel, Total	6020	**53.6**	50.0	107	80 - 120
Selenium, Total	6020	**45.8**	50.0	92	80 - 120
Silver, Total	6020	**52.9**	50.0	106	80 - 120
Thallium, Total	6020	**53.5**	50.0	107	80 - 120
Vanadium, Total	6020	**53.2**	50.0	106	80 - 120
Zinc, Total	6020	**96.6**	100	97	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.02
Sample Matrix: Water

Service Request: J0905474
Date Analyzed: 11/16/09

Lab Control Sample Summary
Inorganic Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample J0905474-LCS Result	Expected	% Rec	% Rec Limits
Sodium, Total	6010B	**9.65**	10.0	97	80 - 120

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09
Date Extracted : NA
Date Analyzed : 11/10/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-11C
Lab Code : J0905474-002DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	0.040	0.038	0.039	5	i

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09
Date Extracted : NA
Date Analyzed : 11/10/09

Matrix Spike Summary
Inorganic Parameters

Sample Name : MW-11C
Lab Code : J0905474-002MS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	0.05	5.00	0.040	5.25	104	90-110	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : 11/04/09
Date Received : 11/05/09
Date Extracted : NA
Date Analyzed : 11/09/09

Duplicate Summary
Inorganic Parameters

Sample Name : MW-13C
Lab Code : J0905474-006DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	10	40	44	42	10	

Report By: Palimi

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : GeoSyntec Consultants
Project Name : JED SWDF
Project Number : FQ1512A.02
Sample Matrix : WATER

Service Request : J0905474
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 11/05-10/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J0905474-LCS
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	4.93	99	90-110	
Ammonia as Nitrogen	mg/L (ppm)	350.1	5.00	4.97	99	90-110	
Chloride	mg/L (ppm)	300.0	5.00	5.20	104	90-110	
Chloride	mg/L (ppm)	300.0	100	104	104	90-110	
Nitrate as Nitrogen	mg/L (ppm)	300.0	5.0	5.11	102	90-110	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	297	99	85-115	
Solids, Total Dissolved (TDS)	mg/L (ppm)	SM 2540 C	300	287	96	85-115	

Report By: Palimi

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Geosntec Service Request # J0905479

Project: JED SWDF

Cooler received on 11/5/09 and opened on 11/5/09 by SC

COURIER: CAS (UPS) FEDEX DHL CLIENT Tracking # 1208 1512 4229

1	Were custody seals on outside of cooler?		(Yes)	No	N/A
2	Were seals intact, signed and dated?		(Yes)	No	N/A
3	Were custody papers properly filled out?		(Yes)	No	N/A
4	Temperature of cooler(s) upon receipt	(Should be 4 +/- 2 degrees C) 3.1	2.6		
5	Correct Temperature?		(Yes)	No	N/A
6	Were Ice or Ice Packs present		(Yes)	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?		(Yes)	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?		(Yes)	No	N/A
9	Did all bottle labels and tags agree with custody papers?		(Yes)	No	N/A
10	Were the correct bottles used for the tests indicated?		(Yes)	No	N/A
11	Were all of the preserved bottles received with the appropriate preservative?		(Yes)	No	N/A

HNO3 pH<2 (H2SO4 pH<2) ZnAc2/NaOH pH>9 NaOH pH>12 (HCl pH<2)

Preservative additions noted below

12	Were all samples received within analysis holding times?		(Yes)	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below		(Yes)	No	N/A
14	Where did the bottles originate?		(CAS)	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

SR #: J 0905474 Date: 11/5/09 Initials: SC

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

	Bottle Code																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Container	40mL G	40mL G	40mL G	40mL G	125mL P	125mL P	125mL P	125mL P	250mL P	250mL P	250mL P	250mL P	250mL P	250mL G	250mL G	500mL P	500mL P	500mL P	1L P	1L P	1L G	1L G	1L G	2oz G	4oz G	8oz G	16oz G	5g ENC	100mL P	Misc. Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-				-	-
-001	3	3					1	1	1																					
-002	1	1					1	1	1																					
-003	1	1					1	1	1																					
-004	1	1					1	1	1																					
-005	1	1					1	1	1																					
-006	1	1					1	1	1																					
-007	1	1					1	1	1																					
-008		1																												
-009	3	3					1	1	1																					
-010	1	1					1	1	1																					
-011	1	1					1	1	1																					
-012	1	1					1	1	1																					
-013	1	1					1	1	1																					
-014		1																												
-015																														
-016																														
-017																														
-018																														
-019																														
-020																														
-021																														
-022																														
-023																														
-024																														
-025																														
-026																														
-027																														
-028																														
-029																														
-030																														
-031																														
-032																														
-033																														
-034																														
-035																														
-036																														
-037																														
-038																														
-039																														
-040																														

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR # J09054?4
CAS Contact

Project Name: JED SWDF	Project Number: FQ1572A.02
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec	
14055 Riveredge Dr. Ste 300	
Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Numbe[redacted]

PRESERVATIVE: 1 0 3 2 0

NUMBER OF CONTAINERS: 8260 | 8011 | NH3 | Metals | TDS, Cl, NO3

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8260	8011	NH3	Metals	TDS, Cl, NO3
MW-11A		11-4-09	1115	GW	9	3	3	1	1	1
MW-11C			1105		9					
MW-12A			1005		9					
MW-12C			1005		9					
MW-13A			0910		9					
MW-13C			0842		9					
MW-16C			0840		9					
Trip Blank		10-28-09	1100	DI H_2O	1	1				

QJ

SPECIAL INSTRUCTIONS/COMMENTS
Cooler ID:
09308 - JED - 1

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
95					
Signature: Joe Terry	Signature: Shawn Lightsey	Signature:	Signature:	Signature:	Signature:
Printed Name: Joe Terry	Printed Name: Shawn Lightsey	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Geosyntec	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time: 11-4-09/1500	Date/Time: 11/5/09 0920	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Columbia Analytical Services
www.caslab.com

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # JQ905479
CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A.02
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec 14055 Riveredge Dr. Ste 300 Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED (Include Method Numb[redacted]

PRESERVATIVE: 1 0 3 2 0

NUMBER OF CONTAINERS | 8260 | 8011 | NH_3 | Metals | TDS, Cl, NO_3

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260	8011	NH_3	Metals	TDS, Cl, NO_3
MW-9A		11.4.09	1215	GW	9	3	3	1	1	1
MW-9C		11.4.09	1210	GW	9	3	3	1	1	1
MW-10A		11.4.09	1352	GW	9	3	3	1	1	1
MW-10C		11.4.09	1330	GW	9	3	3	1	1	1
DUP-1		11.4.09	—	GW	9	3	3	1	1	1
Trip Blank		10.28.09	1100	DI_{H_2O}	1	1				

QT

SPECIAL INSTRUCTIONS/COMMENTS

Cooler ID:
09308 - JED-2

See QAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

__X__ STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

____ I. Results Only

__X__ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
96					
Signature: Joe Terry	Signature: Shawn Lytky	Signature	Signature	Signature	Signature
Printed Name: Joe Terry	Printed Name: Shawn Lytky	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 11-4-09/1500	Date/Time: 11/5/09 0920	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08

Columbia Analytical Services, Inc. 9143 Philips Hwy, Suite 200 | Jacksonville, FL 32256 | 904.739.2277 | 904.739.2011 fax | www.caslab.com

December 28, 2009

Service Request No: J0906369

Kirk Wills
GeoSyntec Consultants
14055 Riveredge Drive
Suite 300
Tampa, FL 33637

Laboratory Results for: JED SWDF/FQ1512A.03

Dear Kirk:

Enclosed are the results of the sample(s) submitted to our laboratory on December 23, 2009. For your reference, these analyses have been assigned our service request number **J0906369**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX.

♻ 100% Recycled Paper

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J0906369
Project:	JED SWDF	**Date Received:**	12/23/09
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Two water samples and one trip blank were received for analysis at Columbia Analytical Services on 12/23/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Matrix Spike Recovery Exceptions

The matrix spike recoveries of cis-1,3-Dichloropropene, trans-1,3-Dichloropropene and Styrene for sample MW-8A were outside the control criterion. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

Approved by _____ **Date** 12/28/09

Florida DEP Data Qualifiers

B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
H	Value based on field kit determination; results may not be accurate.
i	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value (one of the following reasons is discussed in the project case narrative). 1. The result may be inaccurate because the surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD). 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
K	Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
L	Off scale high. The analyte is above the upper limit of the linear calibration range.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
N	Presumptive evidence of the analyte. Confirmation was not performed.
Q	Sample held beyond the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03

Service Request: J0906369

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0906369-001	MW-8A	12/22/09	12:45
J0906369-002	MW-9A	12/22/09	12:32
J0906369-003	Trip Blank	12/22/09	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0906369
Project:	JED SWDF/FQ1512A.03	**Date Collected:**	12/22/2009
Sample Matrix:	Water	**Date Received:**	12/23/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-8A	**Units:**	ug/L
Lab Code:	J0906369-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	12/28/09	12/28/09	JWG0904361	
Vinyl Chloride	ND	U	1.0	0.25	1	12/28/09	12/28/09	JWG0904361	
Bromomethane	ND	U	1.0	0.14	1	12/28/09	12/28/09	JWG0904361	
Chloroethane	ND	U	5.0	0.19	1	12/28/09	12/28/09	JWG0904361	
Trichlorofluoromethane	ND	U	20	0.25	1	12/28/09	12/28/09	JWG0904361	
1,1-Dichloroethene	ND	U	1.0	0.16	1	12/28/09	12/28/09	JWG0904361	
Acetone	ND	U	50	2.4	1	12/28/09	12/28/09	JWG0904361	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	12/28/09	12/28/09	JWG0904361	
Carbon Disulfide	ND	U	10	0.84	1	12/28/09	12/28/09	JWG0904361	
Methylene Chloride	ND	U	5.0	0.72	1	12/28/09	12/28/09	JWG0904361	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	12/28/09	12/28/09	JWG0904361	
Acrylonitrile	ND	U	10	0.59	1	12/28/09	12/28/09	JWG0904361	
1,1-Dichloroethane	ND	U	1.0	0.56	1	12/28/09	12/28/09	JWG0904361	
Vinyl Acetate	ND	U	10	0.60	1	12/28/09	12/28/09	JWG0904361	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
2-Butanone (MEK)	ND	U	10	0.56	1	12/28/09	12/28/09	JWG0904361	
Bromochloromethane	ND	U	5.0	0.14	1	12/28/09	12/28/09	JWG0904361	
Chloroform	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	12/28/09	12/28/09	JWG0904361	
Carbon Tetrachloride	ND	U	1.0	0.18	1	12/28/09	12/28/09	JWG0904361	
Benzene	ND	U	1.0	0.52	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichloropropane	ND	U	1.0	0.057	1	12/28/09	12/28/09	JWG0904361	
Dibromomethane	ND	U	5.0	0.12	1	12/28/09	12/28/09	JWG0904361	
Bromodichloromethane	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	12/28/09	12/28/09	JWG0904361	
Toluene	ND	U	1.0	0.52	1	12/28/09	12/28/09	JWG0904361	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	12/28/09	12/28/09	JWG0904361	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	12/28/09	12/28/09	JWG0904361	
2-Hexanone	ND	U	25	0.36	1	12/28/09	12/28/09	JWG0904361	
Dibromochloromethane	ND	U	1.0	0.11	1	12/28/09	12/28/09	JWG0904361	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369
Date Collected: 12/22/2009
Date Received: 12/23/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J0906369-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	12/28/09	12/28/09	JWG0904361	
Chlorobenzene	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
Ethylbenzene	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
m,p-Xylenes	ND	U	2.0	0.22	1	12/28/09	12/28/09	JWG0904361	
o-Xylene	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
Styrene	ND	U	1.0	0.051	1	12/28/09	12/28/09	JWG0904361	
Bromoform	ND	U	2.0	0.12	1	12/28/09	12/28/09	JWG0904361	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	12/28/09	12/28/09	JWG0904361	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	12/28/09	12/28/09	JWG0904361	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	12/28/09	12/28/09	JWG0904361	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	12/28/09	12/28/09	JWG0904361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	71-122	12/28/09	Acceptable
4-Bromofluorobenzene	103	75-120	12/28/09	Acceptable
Dibromofluoromethane	94	82-116	12/28/09	Acceptable
Toluene-d8	95	88-117	12/28/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369
Date Collected: 12/22/2009
Date Received: 12/23/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-9A
Lab Code: J0906369-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	12/28/09	12/28/09	JWG0904361	
Vinyl Chloride	**1.4**		1.0	0.25	1	12/28/09	12/28/09	JWG0904361	
Bromomethane	ND	U	1.0	0.14	1	12/28/09	12/28/09	JWG0904361	
Chloroethane	ND	U	5.0	0.19	1	12/28/09	12/28/09	JWG0904361	
Trichlorofluoromethane	ND	U	20	0.25	1	12/28/09	12/28/09	JWG0904361	
1,1-Dichloroethene	ND	U	1.0	0.16	1	12/28/09	12/28/09	JWG0904361	
Acetone	ND	U	50	2.4	1	12/28/09	12/28/09	JWG0904361	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	12/28/09	12/28/09	JWG0904361	
Carbon Disulfide	ND	U	10	0.84	1	12/28/09	12/28/09	JWG0904361	
Methylene Chloride	ND	U	5.0	0.72	1	12/28/09	12/28/09	JWG0904361	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	12/28/09	12/28/09	JWG0904361	
Acrylonitrile	ND	U	10	0.59	1	12/28/09	12/28/09	JWG0904361	
1,1-Dichloroethane	ND	U	1.0	0.56	1	12/28/09	12/28/09	JWG0904361	
Vinyl Acetate	ND	U	10	0.60	1	12/28/09	12/28/09	JWG0904361	
cis-1,2-Dichloroethene	**1.5**		1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
2-Butanone (MEK)	ND	U	10	0.56	1	12/28/09	12/28/09	JWG0904361	
Bromochloromethane	ND	U	5.0	0.14	1	12/28/09	12/28/09	JWG0904361	
Chloroform	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	12/28/09	12/28/09	JWG0904361	
Carbon Tetrachloride	ND	U	1.0	0.18	1	12/28/09	12/28/09	JWG0904361	
Benzene	**9.6**		1.0	0.52	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichloroethane (EDC)	**0.86**	I	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichloropropane	ND	U	1.0	0.057	1	12/28/09	12/28/09	JWG0904361	
Dibromomethane	ND	U	5.0	0.12	1	12/28/09	12/28/09	JWG0904361	
Bromodichloromethane	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	12/28/09	12/28/09	JWG0904361	
Toluene	**0.72**	I	1.0	0.52	1	12/28/09	12/28/09	JWG0904361	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	12/28/09	12/28/09	JWG0904361	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	12/28/09	12/28/09	JWG0904361	
2-Hexanone	ND	U	25	0.36	1	12/28/09	12/28/09	JWG0904361	
Dibromochloromethane	ND	U	1.0	0.11	1	12/28/09	12/28/09	JWG0904361	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0906369
Project:	JED SWDF/FQ1512A.03	**Date Collected:**	12/22/2009
Sample Matrix:	Water	**Date Received:**	12/23/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-9A	**Units:**	ug/L
Lab Code:	J0906369-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	12/28/09	12/28/09	JWG0904361	
Chlorobenzene	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
Ethylbenzene	**1.0**		1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
m,p-Xylenes	**5.1**		2.0	0.22	1	12/28/09	12/28/09	JWG0904361	
o-Xylene	**2.5**		1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
Styrene	ND	U	1.0	0.051	1	12/28/09	12/28/09	JWG0904361	
Bromoform	ND	U	2.0	0.12	1	12/28/09	12/28/09	JWG0904361	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	12/28/09	12/28/09	JWG0904361	
1,4-Dichlorobenzene	**1.5**		1.0	0.14	1	12/28/09	12/28/09	JWG0904361	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	12/28/09	12/28/09	JWG0904361	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	12/28/09	12/28/09	JWG0904361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	103	71-122	12/28/09	Acceptable
4-Bromofluorobenzene	110	75-120	12/28/09	Acceptable
Dibromofluoromethane	93	82-116	12/28/09	Acceptable
Toluene-d8	94	88-117	12/28/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369
Date Collected: 12/22/2009
Date Received: 12/23/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J0906369-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	12/28/09	12/28/09	JWG0904361	
Vinyl Chloride	ND	U	1.0	0.25	1	12/28/09	12/28/09	JWG0904361	
Bromomethane	ND	U	1.0	0.14	1	12/28/09	12/28/09	JWG0904361	
Chloroethane	ND	U	5.0	0.19	1	12/28/09	12/28/09	JWG0904361	
Trichlorofluoromethane	ND	U	20	0.25	1	12/28/09	12/28/09	JWG0904361	
1,1-Dichloroethene	ND	U	1.0	0.16	1	12/28/09	12/28/09	JWG0904361	
Acetone	ND	U	50	2.4	1	12/28/09	12/28/09	JWG0904361	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	12/28/09	12/28/09	JWG0904361	
Carbon Disulfide	ND	U	10	0.84	1	12/28/09	12/28/09	JWG0904361	
Methylene Chloride	ND	U	5.0	0.72	1	12/28/09	12/28/09	JWG0904361	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	12/28/09	12/28/09	JWG0904361	
Acrylonitrile	ND	U	10	0.59	1	12/28/09	12/28/09	JWG0904361	
1,1-Dichloroethane	ND	U	1.0	0.56	1	12/28/09	12/28/09	JWG0904361	
Vinyl Acetate	ND	U	10	0.60	1	12/28/09	12/28/09	JWG0904361	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
2-Butanone (MEK)	ND	U	10	0.56	1	12/28/09	12/28/09	JWG0904361	
Bromochloromethane	ND	U	5.0	0.14	1	12/28/09	12/28/09	JWG0904361	
Chloroform	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	12/28/09	12/28/09	JWG0904361	
Carbon Tetrachloride	ND	U	1.0	0.18	1	12/28/09	12/28/09	JWG0904361	
Benzene	ND	U	1.0	0.52	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichloropropane	ND	U	1.0	0.057	1	12/28/09	12/28/09	JWG0904361	
Dibromomethane	ND	U	5.0	0.12	1	12/28/09	12/28/09	JWG0904361	
Bromodichloromethane	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	12/28/09	12/28/09	JWG0904361	
Toluene	ND	U	1.0	0.52	1	12/28/09	12/28/09	JWG0904361	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/28/09	12/28/09	JWG0904361	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	12/28/09	12/28/09	JWG0904361	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	12/28/09	12/28/09	JWG0904361	
2-Hexanone	ND	U	25	0.36	1	12/28/09	12/28/09	JWG0904361	
Dibromochloromethane	ND	U	1.0	0.11	1	12/28/09	12/28/09	JWG0904361	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J0906369
Project:	JED SWDF/FQ1512A.03	**Date Collected:**	12/22/2009
Sample Matrix:	Water	**Date Received:**	12/23/2009

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J0906369-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	12/28/09	12/28/09	JWG0904361	
Chlorobenzene	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
Ethylbenzene	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
m,p-Xylenes	ND	U	2.0	0.22	1	12/28/09	12/28/09	JWG0904361	
o-Xylene	ND	U	1.0	0.10	1	12/28/09	12/28/09	JWG0904361	
Styrene	ND	U	1.0	0.051	1	12/28/09	12/28/09	JWG0904361	
Bromoform	ND	U	2.0	0.12	1	12/28/09	12/28/09	JWG0904361	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	12/28/09	12/28/09	JWG0904361	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	12/28/09	12/28/09	JWG0904361	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	12/28/09	12/28/09	JWG0904361	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	12/28/09	12/28/09	JWG0904361	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	12/28/09	12/28/09	JWG0904361	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	12/28/09	12/28/09	JWG0904361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	71-122	12/28/09	Acceptable
4-Bromofluorobenzene	106	75-120	12/28/09	Acceptable
Dibromofluoromethane	94	82-116	12/28/09	Acceptable
Toluene-d8	97	88-117	12/28/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	GeoSyntec Consultants	**Service Request:**	J0906369
Project:	JED SWDF/FQ1512A.03	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JWG0904361-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Chloromethane	ND	U	1.0	0.17	1	12/27/09	12/27/09	JWG0904361	
Vinyl Chloride	ND	U	1.0	0.25	1	12/27/09	12/27/09	JWG0904361	
Bromomethane	ND	U	1.0	0.14	1	12/27/09	12/27/09	JWG0904361	
Chloroethane	ND	U	5.0	0.19	1	12/27/09	12/27/09	JWG0904361	
Trichlorofluoromethane	ND	U	20	0.25	1	12/27/09	12/27/09	JWG0904361	
1,1-Dichloroethene	ND	U	1.0	0.16	1	12/27/09	12/27/09	JWG0904361	
Acetone	ND	U	50	2.4	1	12/27/09	12/27/09	JWG0904361	
Iodomethane (Methyl Iodide)	ND	U	5.0	2.5	1	12/27/09	12/27/09	JWG0904361	
Carbon Disulfide	ND	U	10	0.84	1	12/27/09	12/27/09	JWG0904361	
Methylene Chloride	ND	U	5.0	0.72	1	12/27/09	12/27/09	JWG0904361	
trans-1,2-Dichloroethene	ND	U	1.0	0.13	1	12/27/09	12/27/09	JWG0904361	
Acrylonitrile	ND	U	10	0.59	1	12/27/09	12/27/09	JWG0904361	
1,1-Dichloroethane	ND	U	1.0	0.56	1	12/27/09	12/27/09	JWG0904361	
Vinyl Acetate	ND	U	10	0.60	1	12/27/09	12/27/09	JWG0904361	
cis-1,2-Dichloroethene	ND	U	1.0	0.12	1	12/27/09	12/27/09	JWG0904361	
2-Butanone (MEK)	ND	U	10	0.56	1	12/27/09	12/27/09	JWG0904361	
Bromochloromethane	ND	U	5.0	0.14	1	12/27/09	12/27/09	JWG0904361	
Chloroform	ND	U	1.0	0.10	1	12/27/09	12/27/09	JWG0904361	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.21	1	12/27/09	12/27/09	JWG0904361	
Carbon Tetrachloride	ND	U	1.0	0.18	1	12/27/09	12/27/09	JWG0904361	
Benzene	ND	U	1.0	0.52	1	12/27/09	12/27/09	JWG0904361	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.15	1	12/27/09	12/27/09	JWG0904361	
Trichloroethene (TCE)	ND	U	1.0	0.15	1	12/27/09	12/27/09	JWG0904361	
1,2-Dichloropropane	ND	U	1.0	0.057	1	12/27/09	12/27/09	JWG0904361	
Dibromomethane	ND	U	5.0	0.12	1	12/27/09	12/27/09	JWG0904361	
Bromodichloromethane	ND	U	1.0	0.10	1	12/27/09	12/27/09	JWG0904361	
cis-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/27/09	12/27/09	JWG0904361	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.37	1	12/27/09	12/27/09	JWG0904361	
Toluene	ND	U	1.0	0.52	1	12/27/09	12/27/09	JWG0904361	
trans-1,3-Dichloropropene	ND	U	1.0	0.12	1	12/27/09	12/27/09	JWG0904361	
1,1,2-Trichloroethane	ND	U	1.0	0.21	1	12/27/09	12/27/09	JWG0904361	
Tetrachloroethene (PCE)	ND	U	1.0	0.22	1	12/27/09	12/27/09	JWG0904361	
2-Hexanone	ND	U	25	0.36	1	12/27/09	12/27/09	JWG0904361	
Dibromochloromethane	ND	U	1.0	0.11	1	12/27/09	12/27/09	JWG0904361	

Comments:

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369
Date Collected: NA
Date Received: NA

Appendix I Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0904361-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	1.0	0.18	1	12/27/09	12/27/09	JWG0904361	
Chlorobenzene	ND	U	1.0	0.15	1	12/27/09	12/27/09	JWG0904361	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.10	1	12/27/09	12/27/09	JWG0904361	
Ethylbenzene	ND	U	1.0	0.10	1	12/27/09	12/27/09	JWG0904361	
m,p-Xylenes	ND	U	2.0	0.22	1	12/27/09	12/27/09	JWG0904361	
o-Xylene	ND	U	1.0	0.10	1	12/27/09	12/27/09	JWG0904361	
Styrene	ND	U	1.0	0.051	1	12/27/09	12/27/09	JWG0904361	
Bromoform	ND	U	2.0	0.12	1	12/27/09	12/27/09	JWG0904361	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.15	1	12/27/09	12/27/09	JWG0904361	
1,2,3-Trichloropropane	ND	U	2.0	0.16	1	12/27/09	12/27/09	JWG0904361	
1,4-Dichlorobenzene	ND	U	1.0	0.14	1	12/27/09	12/27/09	JWG0904361	
trans-1,4-Dichloro-2-butene	ND	U	20	1.1	1	12/27/09	12/27/09	JWG0904361	
1,2-Dichlorobenzene	ND	U	1.0	0.17	1	12/27/09	12/27/09	JWG0904361	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	0.26	1	12/27/09	12/27/09	JWG0904361	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	104	71-122	12/27/09	Acceptable
4-Bromofluorobenzene	110	75-120	12/27/09	Acceptable
Dibromofluoromethane	97	82-116	12/27/09	Acceptable
Toluene-d8	105	88-117	12/27/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369

Surrogate Recovery Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
MW-8A	J0906369-001	100	103	94	95
MW-9A	J0906369-002	103	110	93	94
Trip Blank	J0906369-003	106	106	94	97
Method Blank	JWG0904361-4	104	110	97	105
MW-8AMS	JWG0904361-1	95	103	89	92
MW-8ADMS	JWG0904361-2	99	112	92	97
Lab Control Sample	JWG0904361-3	95	111	97	99

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	71-122
Sur2 = 4-Bromofluorobenzene	75-120
Sur3 = Dibromofluoromethane	82-116
Sur4 = Toluene-d8	88-117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369
Date Extracted: 12/28/2009
Date Analyzed: 12/28/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name: MW-8A
Lab Code: J0906369-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG0904361

Analyte Name	Sample Result	MW-8AMS JWG0904361-1 Matrix Spike			MW-8ADMS JWG0904361-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Chloromethane	ND	20.3	20.0	102	21.1	20.0	105	73-139	4	30
Vinyl Chloride	ND	21.1	20.0	106	20.6	20.0	103	78-141	3	30
Bromomethane	ND	19.0	20.0	95	18.5	20.0	93	78-129	2	30
Chloroethane	ND	23.4	20.0	117	22.1	20.0	110	76-129	6	30
Trichlorofluoromethane	ND	23.8	20.0	119	22.7	20.0	113	81-133	5	30
1,1-Dichloroethene	ND	22.8	20.0	114	22.9	20.0	115	79-133	1	30
Acetone	ND	106	100	106	103	100	103	56-139	4	30
Iodomethane (Methyl Iodide)	ND	110	100	110	120	100	120	74-134	8	30
Carbon Disulfide	ND	114	100	114	108	100	108	71-146	6	30
Methylene Chloride	ND	18.0	20.0	90	17.9	20.0	90	75-123	0	30
trans-1,2-Dichloroethene	ND	21.2	20.0	106	20.6	20.0	103	76-125	3	30
Acrylonitrile	ND	94.2	100	94	93.0	100	93	68-131	1	30
1,1-Dichloroethane	ND	20.9	20.0	104	21.1	20.0	105	78-125	1	30
Vinyl Acetate	ND	58.7	100	59	56.3	100	56	43-163	4	30
cis-1,2-Dichloroethene	ND	19.4	20.0	97	19.5	20.0	98	75-127	1	30
2-Butanone (MEK)	ND	95.1	100	95	92.6	100	93	63-134	3	30
Bromochloromethane	ND	20.9	20.0	104	20.8	20.0	104	80-124	0	30
Chloroform	ND	20.2	20.0	101	21.2	20.0	106	81-124	5	30
1,1,1-Trichloroethane (TCA)	ND	21.9	20.0	110	22.1	20.0	110	76-130	1	30
Carbon Tetrachloride	ND	22.4	20.0	112	21.6	20.0	108	76-131	3	30
Benzene	ND	20.8	20.0	104	20.4	20.0	102	78-123	2	30
1,2-Dichloroethane (EDC)	ND	21.1	20.0	106	20.4	20.0	102	74-126	3	30
Trichloroethene (TCE)	ND	20.8	20.0	104	20.9	20.0	104	77-128	0	30
1,2-Dichloropropane	ND	20.2	20.0	101	19.8	20.0	99	77-122	2	30
Dibromomethane	ND	20.7	20.0	104	20.3	20.0	101	78-124	2	30
Bromodichloromethane	ND	20.4	20.0	102	19.7	20.0	99	79-125	4	30
cis-1,3-Dichloropropene	ND	13.4	20.0	67 *	13.7	20.0	68 *	77-117	2	30
4-Methyl-2-pentanone (MIBK)	ND	97.3	100	97	91.1	100	91	65-138	7	30
Toluene	ND	20.0	20.0	100	19.0	20.0	95	86-119	5	30
trans-1,3-Dichloropropene	ND	14.1	20.0	70 *	14.1	20.0	70 *	75-120	0	30
1,1,2-Trichloroethane	ND	20.2	20.0	101	18.8	20.0	94	77-124	7	30
Tetrachloroethene (PCE)	ND	19.6	20.0	98	18.8	20.0	94	79-123	4	30
2-Hexanone	ND	95.2	100	95	87.4	100	87	63-142	9	30
Dibromochloromethane	ND	20.1	20.0	101	18.6	20.0	93	78-124	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	GeoSyntec Consultants	**Service Request:**	J0906369
Project:	JED SWDF/FQ1512A.03	**Date Extracted:**	12/28/2009
Sample Matrix:	Water	**Date Analyzed:**	12/28/2009

Matrix Spike/Duplicate Matrix Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Sample Name:	MW-8A	**Units:**	ug/L
Lab Code:	J0906369-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG0904361

Analyte Name	Sample Result	MW-8AMS JWG0904361-1 Matrix Spike			MW-8ADMS JWG0904361-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	ND	18.9	20.0	94	19.4	20.0	97	81-119	3	30
Chlorobenzene	ND	19.4	20.0	97	18.7	20.0	94	81-120	3	30
1,1,1,2-Tetrachloroethane	ND	20.1	20.0	101	20.1	20.0	100	82-118	0	30
Ethylbenzene	ND	20.7	20.0	104	20.3	20.0	102	87-122	2	30
m,p-Xylenes	ND	39.1	40.0	98	38.6	40.0	97	82-120	1	30
o-Xylene	ND	19.5	20.0	98	19.3	20.0	97	85-119	1	30
Styrene	ND	17.9	20.0	90	16.1	20.0	81 *	84-126	11	30
Bromoform	ND	17.1	20.0	86	17.3	20.0	87	70-129	1	30
1,1,2,2-Tetrachloroethane	ND	18.6	20.0	93	17.7	20.0	89	72-127	5	30
1,2,3-Trichloropropane	ND	19.1	20.0	96	19.0	20.0	95	76-123	0	30
1,4-Dichlorobenzene	ND	18.4	20.0	92	19.5	20.0	97	75-115	6	30
trans-1,4-Dichloro-2-butene	ND	7.07	20.0	35	8.26	20.0	41	22-135	16	30
1,2-Dichlorobenzene	ND	19.0	20.0	95	19.2	20.0	96	77-116	1	30
1,2-Dibromo-3-chloropropane (DBCP	ND	15.2	20.0	76	18.5	20.0	92	54-120	19	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369
Date Extracted: 12/27/2009
Date Analyzed: 12/27/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904361

Analyte Name	Lab Control Sample JWG0904361-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Chloromethane	19.4	20.0	97	67-135
Vinyl Chloride	20.9	20.0	105	78-132
Bromomethane	23.5	20.0	118	79-130
Chloroethane	22.4	20.0	112	74-126
Trichlorofluoromethane	24.1	20.0	120	74-134
1,1-Dichloroethene	23.8	20.0	119	78-130
Acetone	108	100	108	67-133
Iodomethane (Methyl Iodide)	114	100	114	68-134
Carbon Disulfide	103	100	103	76-138
Methylene Chloride	19.4	20.0	97	72-124
trans-1,2-Dichloroethene	21.7	20.0	109	77-124
Acrylonitrile	94.7	100	95	77-127
1,1-Dichloroethane	20.9	20.0	104	80-128
Vinyl Acetate	98.5	100	99	61-148
cis-1,2-Dichloroethene	20.8	20.0	104	80-126
2-Butanone (MEK)	100	100	100	73-127
Bromochloromethane	21.4	20.0	107	79-129
Chloroform	22.1	20.0	110	83-124
1,1,1-Trichloroethane (TCA)	22.8	20.0	114	79-124
Carbon Tetrachloride	22.5	20.0	112	81-125
Benzene	20.8	20.0	104	79-119
1,2-Dichloroethane (EDC)	21.5	20.0	107	80-124
Trichloroethene (TCE)	21.7	20.0	109	76-124
1,2-Dichloropropane	20.2	20.0	101	79-123
Dibromomethane	20.4	20.0	102	83-123
Bromodichloromethane	20.7	20.0	104	81-123
cis-1,3-Dichloropropene	19.9	20.0	100	86-123
4-Methyl-2-pentanone (MIBK)	98.2	100	98	72-136
Toluene	20.1	20.0	100	86-117
trans-1,3-Dichloropropene	20.8	20.0	104	83-124
1,1,2-Trichloroethane	19.5	20.0	97	86-114
Tetrachloroethene (PCE)	20.2	20.0	101	80-121
2-Hexanone	95.6	100	96	71-138
Dibromochloromethane	19.5	20.0	97	82-121
1,2-Dibromoethane (EDB)	19.0	20.0	95	88-117
Chlorobenzene	20.0	20.0	100	86-113

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: JED SWDF/FQ1512A.03
Sample Matrix: Water

Service Request: J0906369
Date Extracted: 12/27/2009
Date Analyzed: 12/27/2009

Lab Control Spike Summary
Appendix I Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904361

Analyte Name	Lab Control Sample JWG0904361-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	21.2	20.0	106	85-117
Ethylbenzene	20.8	20.0	104	90-118
m,p-Xylenes	41.4	40.0	104	86-121
o-Xylene	20.7	20.0	103	89-119
Styrene	19.5	20.0	97	89-122
Bromoform	18.9	20.0	95	68-129
1,1,2,2-Tetrachloroethane	18.4	20.0	92	83-120
1,2,3-Trichloropropane	21.0	20.0	105	83-123
1,4-Dichlorobenzene	21.7	20.0	108	83-113
trans-1,4-Dichloro-2-butene	20.6	20.0	103	53-143
1,2-Dichlorobenzene	22.0	20.0	110	84-115
1,2-Dibromo-3-chloropropane (DBCP	21.3	20.0	107	62-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: Geosyntec Service Request #: JU906369

Project: JED SWDF

Cooler received on 12-23-09 and opened on 12-23-09 by SB

COURIER: CAS (UPS) FEDEX Client Other _____ Airbill # J2290589336

1	Were custody seals on outside of cooler?	(Yes)	No						
	If yes, how many and where?	#: 1	(on lid)	other					
2	Were seals intact and signature and date correct?	(Yes)	No	N/A					
3	Were custody papers properly filled out?	(Yes)	No	N/A					
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C)	3.3							
5	Thermometer ID	T16							
6	Temperature Blank Present?	(Yes)	No						
7	Were Ice or Ice Packs present	(Ice)	Ice Packs	No					
8	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A					
9	Type of packing material present	bubble wrap							
10	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A					
11	Did all bottle labels and tags agree with custody papers?	(Yes)	No	N/A					
12	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A					
13	Were all of the preserved bottles received with the appropriate preservative? HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2 Preservative additions noted below	Yes	No	(N/A)					
14	Were all samples received within analysis holding times?	(Yes)	No	N/A					
15	Were VOA vials checked for absence of air bubbles? If present, note below	(Yes)	No	N/A					
16	Where did the bottles originate?	(CAS)	Client						

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 0906369 Date: 12.23.09 Initials: GB

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

	Bottle Code																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Container	40mL G	40mL G	40mL G	125mL P	125mL P	125mL P	125mL P	250mL P	250mL P	250mL P	250mL P	250mL P	250mL G	250mL G	500mL P	500mL P	500mL P	500mL P	500mL G	1L P	1L P	1L G	1L G	1L G	2oz G	4oz G	8oz G	16oz G	100ml P	Ziplock P	Misc. Misc.	
Pres.		HCl	Na2S2O3		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAc2 NaOH	NaOH		HNO3		HCl	H2SO4	HNO3			HNO3		HCl	H2SO4					Sodium Thiosulfate			
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A		N/A	
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-001		3																														-001
-002		3																														-002
-003		2																														-003
-004																																-004
-005																																-005
-006																																-006
-007																																-007
-008																																-008
-009																																-009
-010																																-010
-011																																-011
-012																																-012
-013																																-013
-014																																-014
-015																																-015
-016																																-016
-017																																-017
-018																																-018
-019																																-019
-020																																-020
-021																																-021
-022																																-022
-023																																-023
-024																																-024
-025																																-025
-026																																-026
-027																																-027
-028																																-028
-029																																-029
-030																																-030
-031																																-031
-032																																-032
-033																																-033
-034																																-034
-035																																-035
-036																																-036
-037																																-037
-038																																-038
-039																																-039
-040																																-040

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR # J0906369

CAS Contact

Project Name: JED SWDF	Project Number: FQ1512A.03
Project Manager: Kirk Wills	Email Address: kwills@geosyntec.com
Company/Address: Geosyntec	
14055 Riveredge Dr. Ste 300	
Tampa, FL 33637	
Phone #: 813-558-0990	FAX#: 813-558-9726
Sampler's Signature: Joe Terry	Sampler's Printed Name: Joe Terry

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

8260

[redacted]

1. HCl
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX		
MW-8A		12-22-09	1245	GW	3	3
MW-9A		12-22-09	1232	GW	3	3
Trip Blk		12-17-09	1000	DI H_2O	2	2

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐

TURNAROUND REQUIREMENTS

_____ **RUSH** (SURCHARGES APPLY)

__X__ **STANDARD**

REQUESTED FAX DATE

_____

REQUESTED REPORT DATE

_____

REPORT REQUIREMENTS

____ I. Results Only

__X__ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Joe Terry	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Joe Terry	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Geosyntec	Firm: UPS	Firm: UPS	Firm: CAS	Firm:	Firm:
Date/Time: 12-22-09/1530	Date/Time:	Date/Time:	Date/Time: 12-23-09 0930	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-06/20/08