COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-04-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00117

Date Collected: 5/18/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -7.0 Pf 1 = 1.0

D.F. = 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.49	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.40	
106-99-0	1,3-Butadiene	ND	1.0	ND	0.46	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.39	
67-64-1	Acetone	**18**	10	**7.6**	4.3	
75-69-4	Trichlorofluoromethane	**1.2**	1.0	**0.21**	0.18	
107-13-1	Acrylonitrile	ND	1.0	ND	0.47	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.26	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.33	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.26	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	**6.1**	1.0	**1.7**	0.29	
78-93-3	2-Butanone (MEK)	**2.7**	1.0	**0.91**	0.35	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.26	
67-66-3	Chloroform	ND	1.0	ND	0.21	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19	
71-43-2	Benzene	ND	1.0	ND	0.32	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-04-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00117

Date Collected: 5/18/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -7.0 Pf 1 = 1.0

D.F. = 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.25	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19	
108-88-3	Toluene	**4.3**	1.0	**1.2**	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.25	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
136777-61-2	*m,p* -Xylenes	ND	2.0	ND	0.47	
75-25-2	Bromoform	ND	1.0	ND	0.099	
100-42-5	Styrene	ND	1.0	ND	0.24	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KHH Date: 06/11/04

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-04-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-010

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00117

Date Collected: 5/18/04
Date Received: 5/21/04
Date Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -7.0 Pf 1 = 1.0
D.F. = 2.04

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.28	Acetaldehyde	**5**	
6.17	Ethanol	**10**	
9.60	Acetic Acid	**10**	
24.98	Unidentified Siloxane (Possible Artifact)	**9**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: _____ Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-05-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00149

Date Collected: 5/18/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -10.6 Pf 1 = 1.0

D.F. = 3.83

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.9	ND	0.93	
75-01-4	Vinyl Chloride	ND	1.9	ND	0.75	
106-99-0	1,3-Butadiene	ND	1.9	ND	0.87	
74-83-9	Bromomethane	ND	1.9	ND	0.49	
75-00-3	Chloroethane	ND	1.9	ND	0.73	
67-64-1	Acetone	**56**	19	**23**	8.1	
75-69-4	Trichlorofluoromethane	ND	1.9	ND	0.34	
107-13-1	Acrylonitrile	ND	1.9	ND	0.88	
75-35-4	1,1-Dichloroethene	ND	1.9	ND	0.48	
75-09-2	Methylene chloride	ND	1.9	ND	0.55	
76-13-1	Trichlorotrifluoroethane	ND	1.9	ND	0.25	
75-15-0	Carbon Disulfide	ND	1.9	ND	0.62	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	ND	0.48	
75-34-3	1,1-Dichloroethane	ND	1.9	ND	0.47	
1634-04-4	Methyl tert-Butyl Ether	ND	1.9	ND	0.53	
108-05-4	Vinyl Acetate	**11**	1.9	**3.2**	0.54	
78-93-3	2-Butanone (MEK)	**5.4**	1.9	**1.8**	0.65	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	ND	0.48	
67-66-3	Chloroform	ND	1.9	ND	0.39	
107-06-2	1,2-Dichloroethane	ND	1.9	ND	0.47	
71-55-6	1,1,1-Trichloroethane	ND	1.9	ND	0.35	
71-43-2	Benzene	ND	1.9	ND	0.60	
56-23-5	Carbon Tetrachloride	ND	1.9	ND	0.30	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KLH Date: 6/10/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-05-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00149

Date Collected: 5/18/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -10.6 Pf 1 = 1.0

D.F. = 3.83

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	1.9	ND	0.41	
75-27-4	Bromodichloromethane	ND	1.9	ND	0.29	
79-01-6	Trichloroethene	ND	1.9	ND	0.36	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	ND	0.42	
108-10-1	4-Methyl-2-pentanone	ND	1.9	ND	0.47	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	ND	0.42	
79-00-5	1,1,2-Trichloroethane	ND	1.9	ND	0.35	
108-88-3	Toluene	**3.0**	1.9	**0.80**	0.51	
591-78-6	2-Hexanone	ND	1.9	ND	0.47	
124-48-1	Dibromochloromethane	ND	1.9	ND	0.22	
106-93-4	1,2-Dibromoethane	ND	1.9	ND	0.25	
127-18-4	Tetrachloroethene	ND	1.9	ND	0.28	
108-90-7	Chlorobenzene	ND	1.9	ND	0.42	
100-41-4	Ethylbenzene	ND	1.9	ND	0.44	
136777-61-2	*m,p*-Xylenes	ND	3.8	ND	0.88	
75-25-2	Bromoform	ND	1.9	ND	0.19	
100-42-5	Styrene	ND	1.9	ND	0.45	
95-47-6	o-Xylene	ND	1.9	ND	0.44	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	ND	0.28	
541-73-1	1,3-Dichlorobenzene	ND	1.9	ND	0.32	
106-46-7	1,4-Dichlorobenzene	ND	1.9	ND	0.32	
95-50-1	1,2-Dichlorobenzene	ND	1.9	ND	0.32	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-05-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-011

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00149

Date Collected: 5/18/04
Date Received: 5/21/04
Date Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -10.6 Pf 1 = 1.0
D.F. = 3.83

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.29	Acetaldehyde	**10**	
9.57	Acetic Acid	**10**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: KMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-07-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00443

Date Collected: 5/18/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -11.2 Pf 1 = 1.0

D.F. = 4.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	2.2	ND	1.1	
75-01-4	Vinyl Chloride	ND	2.2	ND	0.88	
106-99-0	1,3-Butadiene	ND	2.2	ND	1.0	
74-83-9	Bromomethane	ND	2.2	ND	0.58	
75-00-3	Chloroethane	ND	2.2	ND	0.85	
67-64-1	Acetone	**57**	22	**24**	9.5	
75-69-4	Trichlorofluoromethane	ND	2.2	ND	0.40	
107-13-1	Acrylonitrile	ND	2.2	ND	1.0	
75-35-4	1,1-Dichloroethene	ND	2.2	ND	0.57	
75-09-2	Methylene chloride	ND	2.2	ND	0.65	
76-13-1	Trichlorotrifluoroethane	ND	2.2	ND	0.29	
75-15-0	Carbon Disulfide	ND	2.2	ND	0.72	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ND	0.57	
75-34-3	1,1-Dichloroethane	ND	2.2	ND	0.55	
1634-04-4	Methyl tert-Butyl Ether	ND	2.2	ND	0.62	
108-05-4	Vinyl Acetate	**11**	2.2	**3.3**	0.64	
78-93-3	2-Butanone (MEK)	**5.5**	2.2	**1.9**	0.76	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ND	0.57	
67-66-3	Chloroform	ND	2.2	ND	0.46	
107-06-2	1,2-Dichloroethane	ND	2.2	ND	0.55	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ND	0.41	
71-43-2	Benzene	ND	2.2	ND	0.70	
56-23-5	Carbon Tetrachloride	ND	2.2	ND	0.36	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-07-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00443

Date Collected: 5/18/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -11.2 Pf 1 = 1.0

D.F. = 4.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	2.2	ND	0.49	
75-27-4	Bromodichloromethane	ND	2.2	ND	0.34	
79-01-6	Trichloroethene	ND	2.2	ND	0.42	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ND	0.49	
108-10-1	4-Methyl-2-pentanone	ND	2.2	ND	0.55	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ND	0.49	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ND	0.41	
108-88-3	Toluene	**7.5**	2.2	**2.0**	0.60	
591-78-6	2-Hexanone	ND	2.2	ND	0.55	
124-48-1	Dibromochloromethane	ND	2.2	ND	0.26	
106-93-4	1,2-Dibromoethane	ND	2.2	ND	0.29	
127-18-4	Tetrachloroethene	ND	2.2	ND	0.33	
108-90-7	Chlorobenzene	ND	2.2	ND	0.49	
100-41-4	Ethylbenzene	ND	2.2	ND	0.52	
136777-61-2	*m,p*-Xylenes	ND	4.5	ND	1.0	
75-25-2	Bromoform	ND	2.2	ND	0.22	
100-42-5	Styrene	ND	2.2	ND	0.53	
95-47-6	o-Xylene	ND	2.2	ND	0.52	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ND	0.33	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ND	0.37	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ND	0.37	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-07-051804**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-012

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00443

Date Collected: 5/18/04
Date Received: 5/21/04
Date Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -11.2 Pf 1 = 1.0
D.F. = 4.49

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.29	Acetaldehyde	**10**	
6.17	Ethanol	**20**	
9.59	Acetic Acid	**30**	
23.71	Benzaldehyde	**20**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: RHH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-01-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00202

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.1 Pf 1 = 3.5

D.F. = 1.23

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	0.62	ND	0.30	
75-01-4	Vinyl Chloride	ND	0.62	ND	0.24	
106-99-0	1,3-Butadiene	ND	0.62	ND	0.28	
74-83-9	Bromomethane	ND	0.62	ND	0.16	
75-00-3	Chloroethane	ND	0.62	ND	0.23	
67-64-1	Acetone	**8.5**	6.2	**3.6**	2.6	
75-69-4	Trichlorofluoromethane	**1.2**	0.62	**0.21**	0.11	
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.62	ND	0.16	
75-09-2	Methylene chloride	ND	0.62	ND	0.18	
76-13-1	Trichlorotrifluoroethane	ND	0.62	ND	0.08	
75-15-0	Carbon Disulfide	ND	0.62	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.62	ND	0.16	
75-34-3	1,1-Dichloroethane	ND	0.62	ND	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	0.62	ND	0.17	
108-05-4	Vinyl Acetate	**2.0**	0.62	**0.57**	0.17	
78-93-3	2-Butanone (MEK)	**1.1**	0.62	**0.38**	0.21	
156-59-2	cis-1,2-Dichloroethene	ND	0.62	ND	0.16	
67-66-3	Chloroform	ND	0.62	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.62	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.62	ND	0.11	
71-43-2	Benzene	ND	0.62	ND	0.19	
56-23-5	Carbon Tetrachloride	ND	0.62	ND	0.10	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-01-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00202

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.1 Pf 1 = 3.5

D.F. = 1.23

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.62	ND	0.13	
75-27-4	Bromodichloromethane	ND	0.62	ND	0.09	
79-01-6	Trichloroethene	ND	0.62	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.62	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.62	ND	0.11	
108-88-3	Toluene	**0.81**	0.62	**0.22**	0.16	
591-78-6	2-Hexanone	ND	0.62	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.62	ND	0.07	
106-93-4	1,2-Dibromoethane	ND	0.62	ND	0.08	
127-18-4	Tetrachloroethene	ND	0.62	ND	0.09	
108-90-7	Chlorobenzene	ND	0.62	ND	0.13	
100-41-4	Ethylbenzene	ND	0.62	ND	0.14	
136777-61-2	*m,p*-Xylenes	ND	1.2	ND	0.28	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	ND	0.62	ND	0.14	
95-47-6	o-Xylene	ND	0.62	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.62	ND	0.09	
541-73-1	1,3-Dichlorobenzene	ND	0.62	ND	0.10	
106-46-7	1,4-Dichlorobenzene	ND	0.62	ND	0.10	
95-50-1	1,2-Dichlorobenzene	ND	0.62	ND	0.10	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-01-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-013

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00202

Date Collected: 5/19/04
Date Received: 5/21/04
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.1 Pf 1 = 3.5
D.F. = 1.23

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
4.68	Norflurane	4	
6.17	Ethanol	6	
19.50	Hexamethylcyclotrisiloxane (Possible Artifact)	7	
24.83	Octanal	3	
24.98	Unidentified Siloxane (Possible Artifact)	3	
26.90	Nonanal	4	
27.90	Unidentified Siloxane (Possible Artifact)	3	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: KLH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-02-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00616

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6
D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	0.83	ND	0.40	
75-01-4	Vinyl Chloride	ND	0.83	ND	0.32	
106-99-0	1,3-Butadiene	ND	0.83	ND	0.38	
74-83-9	Bromomethane	ND	0.83	ND	0.21	
75-00-3	Chloroethane	ND	0.83	ND	0.31	
67-64-1	Acetone	**8.9**	8.3	**3.7**	3.5	
75-69-4	Trichlorofluoromethane	**1.2**	0.83	**0.22**	0.15	
107-13-1	Acrylonitrile	ND	0.83	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.83	ND	0.21	
75-09-2	Methylene chloride	ND	0.83	ND	0.24	
76-13-1	Trichlorotrifluoroethane	ND	0.83	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.83	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.83	ND	0.21	
75-34-3	1,1-Dichloroethane	ND	0.83	ND	0.21	
1634-04-4	Methyl tert-Butyl Ether	ND	0.83	ND	0.23	
108-05-4	Vinyl Acetate	ND	0.83	ND	0.24	
78-93-3	2-Butanone (MEK)	**1.5**	0.83	**0.50**	0.28	
156-59-2	cis-1,2-Dichloroethene	ND	0.83	ND	0.21	
67-66-3	Chloroform	ND	0.83	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.83	ND	0.21	
71-55-6	1,1,1-Trichloroethane	ND	0.83	ND	0.15	
71-43-2	Benzene	ND	0.83	ND	0.26	
56-23-5	Carbon Tetrachloride	ND	0.83	ND	0.13	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CLH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-02-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00616

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6

D.F. = 1.66

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.83	ND	0.18	
75-27-4	Bromodichloromethane	ND	0.83	ND	0.12	
79-01-6	Trichloroethene	ND	0.83	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.83	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.83	ND	0.15	
108-88-3	Toluene	**1.0**	0.83	**0.26**	0.22	
591-78-6	2-Hexanone	ND	0.83	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.83	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.83	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.83	ND	0.12	
108-90-7	Chlorobenzene	ND	0.83	ND	0.18	
100-41-4	Ethylbenzene	ND	0.83	ND	0.19	
136777-61-2	*m,p*-Xylenes	ND	1.7	ND	0.38	
75-25-2	Bromoform	ND	0.83	ND	0.080	
100-42-5	Styrene	ND	0.83	ND	0.19	
95-47-6	o-Xylene	ND	0.83	ND	0.19	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.83	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.83	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.83	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.83	ND	0.14	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 6/11/04

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-02-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-014

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00616

Date Collected: 5/19/04
Date Received: 5/21/04
Date Analyzed: 6/8/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.7 Pf 1 = 3.6
D.F. = 1.66

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
9.65	Acetic Acid	**20**	
13.13	Pentanal	**7**	
14.59	Pyrazine	**5**	
17.81	Hexanal	**10**	
19.51	Hexamethylcyclotrisiloxane (Possible Artifact)	**30**	
21.88	Heptanal	**20**	
23.71	Benzaldehyde	**7**	
24.82	Octanal	**40**	
25.81	$C_{12}H_{26}$ Branched Alkane	**8**	
26.15	$C_{12}H_{26}$ Branched Alkane	**8**	
26.53	$C_{12}H_{26}$ Branched Alkane	**7**	
26.90	Nonanal	**70**	
28.49	Decanal	**10**	
29.39	Unidentified Oxygenated Compound	**6**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: KMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-03-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00201

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5

D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	0.88	ND	0.42	
75-01-4	Vinyl Chloride	ND	0.88	ND	0.34	
106-99-0	1,3-Butadiene	ND	0.88	ND	0.40	
74-83-9	Bromomethane	ND	0.88	ND	0.23	
75-00-3	Chloroethane	ND	0.88	ND	0.33	
67-64-1	Acetone	**17**	8.8	**7.2**	3.7	
75-69-4	Trichlorofluoromethane	**1.1**	0.88	**0.19**	0.16	
107-13-1	Acrylonitrile	ND	0.88	ND	0.40	
75-35-4	1,1-Dichloroethene	ND	0.88	ND	0.22	
75-09-2	Methylene chloride	ND	0.88	ND	0.25	
76-13-1	Trichlorotrifluoroethane	ND	0.88	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.88	ND	0.28	
156-60-5	trans-1,2-Dichloroethene	ND	0.88	ND	0.22	
75-34-3	1,1-Dichloroethane	ND	0.88	ND	0.22	
1634-04-4	Methyl tert-Butyl Ether	ND	0.88	ND	0.24	
108-05-4	Vinyl Acetate	**4.7**	0.88	**1.3**	0.25	
78-93-3	2-Butanone (MEK)	**2.0**	0.88	**0.69**	0.30	
156-59-2	cis-1,2-Dichloroethene	ND	0.88	ND	0.22	
67-66-3	Chloroform	ND	0.88	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	0.88	ND	0.22	
71-55-6	1,1,1-Trichloroethane	ND	0.88	ND	0.16	
71-43-2	Benzene	ND	0.88	ND	0.27	
56-23-5	Carbon Tetrachloride	ND	0.88	ND	0.14	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: EMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-03-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00201

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5
D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.88	ND	0.19	
75-27-4	Bromodichloromethane	ND	0.88	ND	0.13	
79-01-6	Trichloroethene	ND	0.88	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.88	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.88	ND	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.88	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.88	ND	0.16	
108-88-3	Toluene	**0.95**	0.88	**0.25**	0.23	
591-78-6	2-Hexanone	ND	0.88	ND	0.21	
124-48-1	Dibromochloromethane	ND	0.88	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.88	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.88	ND	0.13	
108-90-7	Chlorobenzene	ND	0.88	ND	0.19	
100-41-4	Ethylbenzene	ND	0.88	ND	0.20	
136777-61-2	*m,p*-Xylenes	ND	1.8	ND	0.40	
75-25-2	Bromoform	ND	0.88	ND	0.085	
100-42-5	Styrene	ND	0.88	ND	0.21	
95-47-6	o-Xylene	ND	0.88	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.88	ND	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.88	ND	0.15	
106-46-7	1,4-Dichlorobenzene	ND	0.88	ND	0.15	
95-50-1	1,2-Dichlorobenzene	ND	0.88	ND	0.15	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-03-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-015

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00201

Date Collected: 5/19/04
Date Received: 5/21/04
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5
D.F. = 1.75

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.37	Acetaldehyde	**6**	
6.25	Ethanol	**8**	
9.59	Acetic Acid	**10**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: KKH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-03-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-015DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00201

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5
D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	0.88	ND	0.42	
75-01-4	Vinyl Chloride	ND	0.88	ND	0.34	
106-99-0	1,3-Butadiene	ND	0.88	ND	0.40	
74-83-9	Bromomethane	ND	0.88	ND	0.23	
75-00-3	Chloroethane	ND	0.88	ND	0.33	
67-64-1	Acetone	**17**	8.8	**7.2**	3.7	
75-69-4	Trichlorofluoromethane	**1.1**	0.88	**0.19**	0.16	
107-13-1	Acrylonitrile	ND	0.88	ND	0.40	
75-35-4	1,1-Dichloroethene	ND	0.88	ND	0.22	
75-09-2	Methylene chloride	ND	0.88	ND	0.25	
76-13-1	Trichlorotrifluoroethane	ND	0.88	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.88	ND	0.28	
156-60-5	trans-1,2-Dichloroethene	ND	0.88	ND	0.22	
75-34-3	1,1-Dichloroethane	ND	0.88	ND	0.22	
1634-04-4	Methyl tert-Butyl Ether	ND	0.88	ND	0.24	
108-05-4	Vinyl Acetate	**5.3**	0.88	**1.5**	0.25	
78-93-3	2-Butanone (MEK)	**2.0**	0.88	**0.69**	0.30	
156-59-2	cis-1,2-Dichloroethene	ND	0.88	ND	0.22	
67-66-3	Chloroform	ND	0.88	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	0.88	ND	0.22	
71-55-6	1,1,1-Trichloroethane	ND	0.88	ND	0.16	
71-43-2	Benzene	ND	0.88	ND	0.27	
56-23-5	Carbon Tetrachloride	ND	0.88	ND	0.14	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RMH Date: 6/10/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-03-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-015DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00201

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5
D.F. = 1.75

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.88	ND	0.19	
75-27-4	Bromodichloromethane	ND	0.88	ND	0.13	
79-01-6	Trichloroethene	ND	0.88	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.88	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.88	ND	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.88	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.88	ND	0.16	
108-88-3	Toluene	**0.93**	0.88	**0.25**	0.23	
591-78-6	2-Hexanone	ND	0.88	ND	0.21	
124-48-1	Dibromochloromethane	ND	0.88	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.88	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.88	ND	0.13	
108-90-7	Chlorobenzene	ND	0.88	ND	0.19	
100-41-4	Ethylbenzene	ND	0.88	ND	0.20	
136777-61-2	*m,p*-Xylenes	ND	1.8	ND	0.40	
75-25-2	Bromoform	ND	0.88	ND	0.085	
100-42-5	Styrene	ND	0.88	ND	0.21	
95-47-6	o-Xylene	ND	0.88	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.88	ND	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.88	ND	0.15	
106-46-7	1,4-Dichlorobenzene	ND	0.88	ND	0.15	
95-50-1	1,2-Dichlorobenzene	ND	0.88	ND	0.15	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RHH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-03-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-015DUP

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00201

Date Collected: 5/19/04
Date Received: 5/21/04
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.3 Pf 1 = 3.5
D.F. = 1.75

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.40	Acetaldehyde	**6**	
6.30	Ethanol	**10**	
9.47	Acetic Acid	**9**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: RHH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-04-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00297

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.9 Pf 1 = 3.5

D.F. = 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**0.85**	0.85	**0.41**	0.41	
75-01-4	Vinyl Chloride	ND	0.85	ND	0.33	
106-99-0	1,3-Butadiene	ND	0.85	ND	0.38	
74-83-9	Bromomethane	ND	0.85	ND	0.22	
75-00-3	Chloroethane	ND	0.85	ND	0.32	
67-64-1	Acetone	**22**	8.5	**9.1**	3.6	
75-69-4	Trichlorofluoromethane	**1.1**	0.85	**0.19**	0.15	
107-13-1	Acrylonitrile	ND	0.85	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	0.85	ND	0.21	
75-09-2	Methylene chloride	ND	0.85	ND	0.24	
76-13-1	Trichlorotrifluoroethane	ND	0.85	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.85	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.85	ND	0.21	
75-34-3	1,1-Dichloroethane	ND	0.85	ND	0.21	
1634-04-4	Methyl tert-Butyl Ether	ND	0.85	ND	0.23	
108-05-4	Vinyl Acetate	**5.7**	0.85	**1.6**	0.24	
78-93-3	2-Butanone (MEK)	**3.5**	0.85	**1.2**	0.29	
156-59-2	cis-1,2-Dichloroethene	ND	0.85	ND	0.21	
67-66-3	Chloroform	ND	0.85	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.85	ND	0.21	
71-55-6	1,1,1-Trichloroethane	ND	0.85	ND	0.15	
71-43-2	Benzene	ND	0.85	ND	0.26	
56-23-5	Carbon Tetrachloride	ND	0.85	ND	0.13	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KHH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-04-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-016

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00297

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.9 Pf 1 = 3.5

D.F. = 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.85	ND	0.18	
75-27-4	Bromodichloromethane	ND	0.85	ND	0.13	
79-01-6	Trichloroethene	ND	0.85	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.85	ND	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.85	ND	0.15	
108-88-3	Toluene	**2.3**	0.85	**0.60**	0.22	
591-78-6	2-Hexanone	ND	0.85	ND	0.21	
124-48-1	Dibromochloromethane	ND	0.85	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.85	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.85	ND	0.12	
108-90-7	Chlorobenzene	ND	0.85	ND	0.18	
100-41-4	Ethylbenzene	ND	0.85	ND	0.19	
136777-61-2	*m,p*-Xylenes	ND	1.7	ND	0.39	
75-25-2	Bromoform	ND	0.85	ND	0.082	
100-42-5	Styrene	ND	0.85	ND	0.20	
95-47-6	o-Xylene	ND	0.85	ND	0.19	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.85	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.85	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.85	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.85	ND	0.14	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-04-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-016

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00297

Date Collected: 5/19/04
Date Received: 5/21/04
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.9 Pf 1 = 3.5
D.F. = 1.69

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.37	Acetaldehyde	8	
6.27	Ethanol	30	
8.93	Trimethylsilanol	20	
9.58	Acetic Acid	10	
18.73	Hexamethylcyclotrisiloxane (Possible Artifact)	4	
20.95	Heptanal	5	
22.72	Benzaldehyde	4	
23.43	$C_{11}H_{24}$ Branched Alkane	5	
23.85	Octanal	5	
24.93	$C_{12}H_{26}$ Branched Alkane	6	
25.32	$C_{12}H_{26}$ Branched Alkane	6	
25.73	$C_{12}H_{26}$ Branched Alkane	4	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: KNH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-05-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00479

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.0 Pf 1 = 3.5

D.F. = 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**1.0**	0.85	**0.47**	0.41	
75-01-4	Vinyl Chloride	ND	0.85	ND	0.33	
106-99-0	1,3-Butadiene	ND	0.85	ND	0.38	
74-83-9	Bromomethane	ND	0.85	ND	0.22	
75-00-3	Chloroethane	ND	0.85	ND	0.32	
67-64-1	Acetone	**16**	8.5	**6.7**	3.6	
75-69-4	Trichlorofluoromethane	**1.1**	0.85	**0.19**	0.15	
107-13-1	Acrylonitrile	ND	0.85	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	0.85	ND	0.21	
75-09-2	Methylene chloride	ND	0.85	ND	0.24	
76-13-1	Trichlorotrifluoroethane	ND	0.85	ND	0.11	
75-15-0	Carbon Disulfide	ND	0.85	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.85	ND	0.21	
75-34-3	1,1-Dichloroethane	ND	0.85	ND	0.21	
1634-04-4	Methyl tert-Butyl Ether	ND	0.85	ND	0.24	
108-05-4	Vinyl Acetate	**3.8**	0.85	**1.1**	0.24	
78-93-3	2-Butanone (MEK)	**2.4**	0.85	**0.81**	0.29	
156-59-2	cis-1,2-Dichloroethene	ND	0.85	ND	0.21	
67-66-3	Chloroform	ND	0.85	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.85	ND	0.21	
71-55-6	1,1,1-Trichloroethane	ND	0.85	ND	0.16	
71-43-2	Benzene	ND	0.85	ND	0.27	
56-23-5	Carbon Tetrachloride	ND	0.85	ND	0.14	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KHH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-05-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-017

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00479

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.0 Pf 1 = 3.5

D.F. = 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.85	ND	0.18	
75-27-4	Bromodichloromethane	ND	0.85	ND	0.13	
79-01-6	Trichloroethene	ND	0.85	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.85	ND	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.85	ND	0.16	
108-88-3	Toluene	**1.6**	0.85	**0.42**	0.23	
591-78-6	2-Hexanone	ND	0.85	ND	0.21	
124-48-1	Dibromochloromethane	ND	0.85	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.85	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.85	ND	0.13	
108-90-7	Chlorobenzene	ND	0.85	ND	0.18	
100-41-4	Ethylbenzene	ND	0.85	ND	0.20	
136777-61-2	*m,p*-Xylenes	ND	1.7	ND	0.39	
75-25-2	Bromoform	ND	0.85	ND	0.082	
100-42-5	Styrene	ND	0.85	ND	0.20	
95-47-6	o-Xylene	ND	0.85	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.85	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.85	ND	0.14	
106-46-7	1,4-Dichlorobenzene	ND	0.85	ND	0.14	
95-50-1	1,2-Dichlorobenzene	ND	0.85	ND	0.14	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-05-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-017

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00479

Date Collected: 5/19/04
Date Received: 5/21/04
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.0 Pf 1 = 3.5
D.F. = 1.70

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.38	Acetaldehyde	**6**	
6.29	Ethanol	**20**	
9.53	Acetic Acid	**6**	
17.20	Hexanal	**4**	
20.95	Heptanal	**5**	
22.72	Benzaldehyde	**5**	
23.85	Octanal	**6**	
26.13	Decanal	**4**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: KLH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-07-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00086

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.4 Pf 1 = 3.5
D.F. = 1.77

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	**0.89**	0.89	**0.43**	0.43	
75-01-4	Vinyl Chloride	ND	0.89	ND	0.35	
106-99-0	1,3-Butadiene	ND	0.89	ND	0.40	
74-83-9	Bromomethane	ND	0.89	ND	0.23	
75-00-3	Chloroethane	ND	0.89	ND	0.34	
67-64-1	Acetone	**18**	8.9	**7.5**	3.7	
75-69-4	Trichlorofluoromethane	**1.1**	0.89	**0.20**	0.16	
107-13-1	Acrylonitrile	ND	0.89	ND	0.41	
75-35-4	1,1-Dichloroethene	ND	0.89	ND	0.22	
75-09-2	Methylene chloride	ND	0.89	ND	0.25	
76-13-1	Trichlorotrifluoroethane	ND	0.89	ND	0.12	
75-15-0	Carbon Disulfide	ND	0.89	ND	0.28	
156-60-5	trans-1,2-Dichloroethene	ND	0.89	ND	0.22	
75-34-3	1,1-Dichloroethane	ND	0.89	ND	0.22	
1634-04-4	Methyl tert-Butyl Ether	ND	0.89	ND	0.25	
108-05-4	Vinyl Acetate	**4.5**	0.89	**1.3**	0.25	
78-93-3	2-Butanone (MEK)	**2.0**	0.89	**0.67**	0.30	
156-59-2	cis-1,2-Dichloroethene	ND	0.89	ND	0.22	
67-66-3	Chloroform	ND	0.89	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	0.89	ND	0.22	
71-55-6	1,1,1-Trichloroethane	ND	0.89	ND	0.16	
71-43-2	Benzene	ND	0.89	ND	0.28	
56-23-5	Carbon Tetrachloride	ND	0.89	ND	0.14	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KLH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-07-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-018

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00086

Date Collected: 5/19/04
Date Received: 5/21/04
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.4 Pf 1 = 3.5
D.F. = 1.77

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.89	ND	0.19	
75-27-4	Bromodichloromethane	ND	0.89	ND	0.13	
79-01-6	Trichloroethene	ND	0.89	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	ND	0.20	
108-10-1	4-Methyl-2-pentanone	ND	0.89	ND	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	0.89	ND	0.20	
79-00-5	1,1,2-Trichloroethane	ND	0.89	ND	0.16	
108-88-3	Toluene	**1.6**	0.89	**0.42**	0.23	
591-78-6	2-Hexanone	ND	0.89	ND	0.22	
124-48-1	Dibromochloromethane	ND	0.89	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.89	ND	0.12	
127-18-4	Tetrachloroethene	ND	0.89	ND	0.13	
108-90-7	Chlorobenzene	ND	0.89	ND	0.19	
100-41-4	Ethylbenzene	ND	0.89	ND	0.20	
136777-61-2	*m,p*-Xylenes	ND	1.8	ND	0.41	
75-25-2	Bromoform	ND	0.89	ND	0.086	
100-42-5	Styrene	ND	0.89	ND	0.21	
95-47-6	o-Xylene	ND	0.89	ND	0.20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.89	ND	0.13	
541-73-1	1,3-Dichlorobenzene	ND	0.89	ND	0.15	
106-46-7	1,4-Dichlorobenzene	ND	0.89	ND	0.15	
95-50-1	1,2-Dichlorobenzene	ND	0.89	ND	0.15	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 06/11/04

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **AA-07-051904**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P2401075-018

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Chris Parnell/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes: **T**
Container ID: AC00086

Date Collected: 5/19/04
Date Received: 5/21/04
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.4 Pf 1 = 3.5
D.F. = 1.77

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
5.37	Acetaldehyde	**5**	
6.26	Ethanol	**10**	
9.56	Acetic Acid	**10**	
23.85	Octanal	**5**	
27.19	Unidentified Siloxane (Possible Artifact)	**10**	

T = Analyte is a tentatively identified compound, result is estimated.

Verified By: KHH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040604-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo/Michelle Sakamoto
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/4/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	0.50	ND	0.24	
75-01-4	Vinyl Chloride	ND	0.50	ND	0.20	
106-99-0	1,3-Butadiene	ND	0.50	ND	0.23	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.50	ND	0.19	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.50	ND	0.089	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.50	ND	0.13	
75-09-2	Methylene chloride	ND	0.50	ND	0.14	
76-13-1	Trichlorotrifluoroethane	ND	0.50	ND	0.065	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.50	ND	0.12	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	ND	0.14	
108-05-4	Vinyl Acetate	ND	0.50	ND	0.14	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	ND	0.13	
67-66-3	Chloroform	ND	0.50	ND	0.10	
107-06-2	1,2-Dichloroethane	ND	0.50	ND	0.12	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ND	0.092	
71-43-2	Benzene	ND	0.50	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KLH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040604-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo/Michelle Sakamoto
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/4/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
75-27-4	Bromodichloromethane	ND	0.50	ND	0.075	
79-01-6	Trichloroethene	ND	0.50	ND	0.093	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ND	0.092	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.50	ND	0.059	
106-93-4	1,2-Dibromoethane	ND	0.50	ND	0.065	
127-18-4	Tetrachloroethene	ND	0.50	ND	0.074	
108-90-7	Chlorobenzene	ND	0.50	ND	0.11	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ND	0.073	
541-73-1	1,3-Dichlorobenzene	ND	0.50	ND	0.083	
106-46-7	1,4-Dichlorobenzene	ND	0.50	ND	0.083	
95-50-1	1,2-Dichlorobenzene	ND	0.50	ND	0.083	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040604-MB

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo/Michelle Sakamoto
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 6/4/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
	No Compounds Detected		

Verified By: BMH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040607-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo/Michelle Sakamoto
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	0.50	ND	0.24	
75-01-4	Vinyl Chloride	ND	0.50	ND	0.20	
106-99-0	1,3-Butadiene	ND	0.50	ND	0.23	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.50	ND	0.19	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.50	ND	0.089	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.50	ND	0.13	
75-09-2	Methylene chloride	ND	0.50	ND	0.14	
76-13-1	Trichlorotrifluoroethane	ND	0.50	ND	0.065	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.50	ND	0.12	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	ND	0.14	
108-05-4	Vinyl Acetate	ND	0.50	ND	0.14	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	ND	0.13	
67-66-3	Chloroform	ND	0.50	ND	0.10	
107-06-2	1,2-Dichloroethane	ND	0.50	ND	0.12	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ND	0.092	
71-43-2	Benzene	ND	0.50	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KLH Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040607-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo/Michelle Sakamoto
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
75-27-4	Bromodichloromethane	ND	0.50	ND	0.075	
79-01-6	Trichloroethene	ND	0.50	ND	0.093	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ND	0.092	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.50	ND	0.059	
106-93-4	1,2-Dibromoethane	ND	0.50	ND	0.065	
127-18-4	Tetrachloroethene	ND	0.50	ND	0.074	
108-90-7	Chlorobenzene	ND	0.50	ND	0.11	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ND	0.073	
541-73-1	1,3-Dichlorobenzene	ND	0.50	ND	0.083	
106-46-7	1,4-Dichlorobenzene	ND	0.50	ND	0.083	
95-50-1	1,2-Dichlorobenzene	ND	0.50	ND	0.083	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KLH Date: 06/11/04

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040607-MB

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5973/HP6890/MS3
Analyst: Rusty Bravo/Michelle Sakamoto
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
	No Compounds Detected		

Verified By: CMH Date: 06/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040607-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Michelle Sakamoto/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	0.50	ND	0.24	
75-01-4	Vinyl Chloride	ND	0.50	ND	0.20	
106-99-0	1,3-Butadiene	ND	0.50	ND	0.23	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.50	ND	0.19	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.50	ND	0.089	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.50	ND	0.13	
75-09-2	Methylene chloride	ND	0.50	ND	0.14	
76-13-1	Trichlorotrifluoroethane	ND	0.50	ND	0.065	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.50	ND	0.12	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	ND	0.14	
108-05-4	Vinyl Acetate	ND	0.50	ND	0.14	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	ND	0.13	
67-66-3	Chloroform	ND	0.50	ND	0.10	
107-06-2	1,2-Dichloroethane	ND	0.50	ND	0.12	
71-55-6	1,1,1-Trichloroethane	ND	0.50	ND	0.092	
71-43-2	Benzene	ND	0.50	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 6/11/04

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040607-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Michelle Sakamoto/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
75-27-4	Bromodichloromethane	ND	0.50	ND	0.075	
79-01-6	Trichloroethene	ND	0.50	ND	0.093	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.50	ND	0.092	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.50	ND	0.059	
106-93-4	1,2-Dibromoethane	ND	0.50	ND	0.065	
127-18-4	Tetrachloroethene	ND	0.50	ND	0.074	
108-90-7	Chlorobenzene	ND	0.50	ND	0.11	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
136777-61-2	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ND	0.073	
541-73-1	1,3-Dichlorobenzene	ND	0.50	ND	0.083	
106-46-7	1,4-Dichlorobenzene	ND	0.50	ND	0.083	
95-50-1	1,2-Dichlorobenzene	ND	0.50	ND	0.083	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 06/11/04

Client: **GeoSyntec Consultants, Inc.**
Client Sample ID: **Method Blank**
Client Project ID: **Ascon LF/SB0202/31**

CAS Project ID: P2401075
CAS Sample ID: P040607-MB

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Michelle Sakamoto/Aristotle Bragasin
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 6/7/04
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

GC / MS Ret. Time	Compound Identification	Concentration µg/m³	Data Qualifier
	No Compounds Detected		

Verified By: KHH Date: 6/11/04

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: GeoSyntec Consultants, Inc. Work order: P2401075

Project: Ascon LF/SB0202/31

Sample(s) received on: 5/21/04 Date opened: 5/21/04 by: SM

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

		Yes	No	N/A
1	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
2	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information?	☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2401075-001			NA	
P2401075-002			NA	
P2401075-003			NA	
P2401075-004			NA	
P2401075-005			NA	
P2401075-006			NA	
P2401075-007			NA	
P2401075-008			NA	
P2401075-009			NA	
P2401075-010			NA	

Explain any discrepancies: (include lab sample ID numbers):

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: GeoSyntec Consultants, Inc. Work order: P2401075

Project: Ascon LF/SB0202/31

Sample(s) received on: 5/21/04 Date opened: 5/21/04 by: SM

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2401075-011			NA	
P2401075-012			NA	
P2401075-013			NA	
P2401075-014			NA	
P2401075-015			NA	
P2401075-016			NA	
P2401075-017			NA	
P2401075-018			NA	

Columbia Analytical Services INC.
An Employee - Owned Company

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Service Request

Client/Address	GeoSyntec Consultants 2100 main st., Suite 150 Huntington Beach, CA 92648
Phone (714) 969-0800	Fax (714) 969-0820
Email	mreardon@geosyntec.com
Contact	Mike Reardon
Sampler (Signature)	Kamm Daage
Project Name	Ascon LF
Project Number	SB0202/31
Sampling Location	Huntington Beach
P.O. #/Billing Information	SB0202/31 GeoSyntec
CAS Project No.	P2401075

Analysis

Expected Turnaround Time: 24 Hr 48Hr 3Day 4Day 5Day Standard (10 Business Days)

Cooler / Blank
Temp_____

Comments (e.g., preservative or specific instructions)

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	TO-15	Comments
AA-01-051704	5/17/04	-1		Summa	01753	01812	6	X	
AA-02-051704		-2			01260	01689			
AA-03-051704		-3			02009	01955			
AA-04-051704		-4			01641	01019			
AA-05-051704		-5			00274	02052			
AA-07-051704		-6			01517	02077			1512
AA-01-051804	5/18/04	-7			01602	00833			
AA-02-051804		-8			01895	01687			
AA-03-051804		-9			02108	01945			
AA-04-051804		-10			01275	01808			
AA-05-051804		-11			01258	01961			
AA-07-051804		-12			01719	01648			
AA-01-051904	5/19/04	-13			01205	01813			
AA-02-051904		-14			02037	01662			
AA-03-051904		-15			01337	02059			

	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Kamm Daage	5/20/04	1140	Received by: (Signature) Ken McA	5/20/04	1140
Relinquished by: (Signature) Ken McA	5/20/04	1450	Received by: (Signature) M Talamora	5/20/04	1450
Relinquished by: (Signature) M Talamora	5/20/04	0900	Received by: (Signature) Sharon Malone	5/20/04	0900

Additional Comments

94

White Copy: Accompanies Samples — Yellow Copy: Retained by Client — COC #13-7/03

Columbia Analytical Services INC.
An Employee - Owned Company

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Service Request

Client/Address	Project Name	Analysis	CAS Project No. P2401075
	Project Number		Cooler / Blank
Phone Fax SEE PAGE 1	Sampling Location		Temp_____
Email	P.O. #/Billing Information		
Contact	Sampler (Signature)		Comments (e.g., preservative or specific instructions)

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	TO-3 (4)	TO-15			Expected Turnaround Time 24 Hr 48 Hr 3Day 4Day 5Day Standard (10 Business Days)	
AA-04-051904	5/19/04	7:30	-16	Summa	01447	02045	6		X				
AA-05-051904	↓	↓	-17	↓	01776	02062	↓		X				
AA-07-051904	↓	↓	-18	↓	01204	02060	↓		X				

	Date:	Time:		Date:	Time:	Additional Comments
Relinquished by: (Signature) Joanne Boage	5/20/04	1140	Received by: (Signature)	5/20/04	1140	
Relinquished by: (Signature)	5/20/04	1450	Received by: (Signature) M Zamora	5/20/04	1450	
Relinquished by: (Signature) M Zamora	5/21/04	0900	Received by: (Signature) Sharon Malone	5/20/04	0900	

69

White Copy: Accompanies Samples — Yellow Copy: Retained by Client — COC #13-7/03