Fibertec
environmental
services

Thursday, September 05, 2013

Fibertec Project Number:	57680
Project Identification:	PSC-PETRO-CHEM /11013-000191
Submittal Date:	08/28/2013

Ms. Kellie Wing
Bureau Veritas North America, Inc.
22345 Reothel
Novi, MI 48375

Dear Ms. Wing,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

Methanol kit for sample 57680-013 (BSB-22 (3-5) had a low soil mass. Results may be biased low.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

1914 Holloway Drive Holt, MI 48842 T: (517) 699-0345 F: (517) 699-0388
11766 E. Grand River Brighton, MI 48116 T: (810) 220-3300 F: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, MI 49601 T: (231) 775-8368 F: (231) 775-8584

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-001

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**TB-03**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**1**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-001** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	20	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
3. Benzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
4. Bromobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
5. Bromochloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
7. Bromoform	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
8. Bromomethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
16. Chlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
17. Chloroethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
18. Chloroform	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
19. Chloromethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
23. Dibromomethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
37. Diethyl Ether	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
39. ETBE (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**TB-03**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**1**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-001** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
42. Hexachloroethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
43. 2-Hexanone	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
46. Methyl Iodide	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
47. Methylene Chloride	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
50. MTBE	U		µg/L	2.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
51. Naphthalene	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
53. Styrene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
54. TAME (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
59. Toluene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
64. Trichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
71. Xylenes	U		µg/L	3.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-002

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-19 (3-5)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**2**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-002** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	3602	10	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	571	10	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	29000	10	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	2900	10	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	2900	10	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	571	10	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	571	10	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	285	10	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	285	10	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	1400	10	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-19 (3-5)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**2**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-002** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	571	10	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	285	10	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	285	10	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	**790**		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	2900	10	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	285	10	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	285	10	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	5700	10	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	285	10	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	**520**		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	2900	10	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	**820**		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	571	10	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	**863**		µg/kg	571	10	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	570	10	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	1100	10	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	**350**		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	**1000**		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	**450**		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	290	10	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	**4400**		µg/kg	856	10	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-003

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-19 (8-7)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	3	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**18**		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-003** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	3066	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	306	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	306	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-19 (8-7)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**3**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-003** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	**74**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	306	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	613	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	**615**		µg/kg	306	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	**110**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	61	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	89	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	**625**		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec
environmental
services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-004

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-19 (7-11)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**4**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**11:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-004** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
18. Chloroform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-19 (7-11)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**4**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**11:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-004** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	**3.8**		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	**150**		µg/L	5.0	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
59. Toluene	**1.3**		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-005

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**FB-02**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**5**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**11:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-005** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	24	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
3. Benzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
4. Bromobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
5. Bromochloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
7. Bromoform	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
8. Bromomethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
16. Chlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
17. Chloroethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
18. Chloroform	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
19. Chloromethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
23. Dibromomethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
37. Diethyl Ether	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
39. ETBE (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**FB-02**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**5**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**11:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-005** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
42. Hexachloroethane	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
43. 2-Hexanone	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
46. Methyl Iodide	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
47. Methylene Chloride	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
50. MTBE	U		µg/L	2.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
51. Naphthalene	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
53. Styrene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
54. TAME (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
59. Toluene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
64. Trichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B
71. Xylenes	U		µg/L	3.0	1.0	08/29/13	VI13H29B	08/30/13	VI13H29B

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-20 (3-5)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**6**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-006A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**40**		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-006** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	170	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	170	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	4140	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	414	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	170	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	414	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-20 (3-5)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**6**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-006** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	414	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	170	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	828	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	**940**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	414	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	**340**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	**130**		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	82	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	170	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	U		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec
environmental
services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-007

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-20 (5-7)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**7**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-007A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	23		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-007** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	84		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	3238	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	323	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	323	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-20 (5-7)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**7**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-007** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	**200**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	323	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	58	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	647	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	323	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	**360**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	64	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	**545**		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-008

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-20 (7-11)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**8**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**12:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-008** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	26	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
9. t-Butanol (NN)	**180**	J,*	µg/L	50	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
10. 2-Butanone	**9.5**		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
18. Chloroform	**1.5**		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-20 (7-11)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**8**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**12:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-008** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	7.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	**13**		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
59. Toluene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-009

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-21 (3-5)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**9**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**13:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-009A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	25		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-009** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	3341	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	334	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	334	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-21 (3-5)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**9**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**13:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-009** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	334	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	668	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	334	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	66	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	U		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-21 (5-7)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**10**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**13:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-010A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**25**		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-010** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	3354	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	335	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	335	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-010

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-21 (5-7)**	Chain of Custody:	**125646**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**10**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**13:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-010** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	335	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	62	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	670	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	335	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	**240**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	67	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	130	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	U		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

1914 Holloway Drive Holt, MI 48842 T: (517) 699-0345 F: (517) 699-0388
11766 E. Grand River Brighton, MI 48116 T: (810) 220-3300 F: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, MI 49601 T: (231) 775-8368 F: (231) 775-8584
lab@fibertec.us

Fibertec environmental services

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-21 (7-11)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**11**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**13:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-011** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
9. t-Butanol (NN)	**87**	J,*	µg/L	50	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
18. Chloroform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-21 (7-11)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**11**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**13:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-011** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	**16**		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
59. Toluene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**DUP-05**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**12**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**13:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-012** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
9. t-Butanol (NN)	**91**	J,*	µg/L	50	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
18. Chloroform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**DUP-05**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**12**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**13:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-012** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	**16**		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
59. Toluene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Fibertec
environmental
services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-013

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-22 (3-5)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**13**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:45**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-013A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	11		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-013** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.4	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	160	1.4	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	160	1.4	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.4	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	3949	1.4	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	394	1.4	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	160	1.4	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	394	1.4	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C

1914 Holloway Drive Holt, MI 48842 T: (517) 699-0345 F: (517) 699-0388
11766 E. Grand River Brighton, MI 48116 T: (810) 220-3300 F: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, MI 49601 T: (231) 775-8368 F: (231) 775-8584
lab@fibertec.us

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-22 (3-5)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**13**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:45**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-013** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.4	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	394	1.4	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	160	1.4	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.4	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	789	1.4	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	394	1.4	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	**170**		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.4	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	78	1.4	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	160	1.4	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	69	1.4	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.4	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	**261**		µg/kg	150	1.4	08/29/13	V913H29C	08/30/13	V913H29C

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-22 (9-10)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**14**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-014A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	11		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-014** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	2813	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	281	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	281	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-22 (9-10)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**14**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:50**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-014** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	281	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	562	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	281	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	56	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	U		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-015

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-22 (10-14)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**15**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**15:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-015** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
18. Chloroform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-22 (10-14)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**15**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**15:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-015** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	**5.0**		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
59. Toluene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-23 (3-5)	Chain of Custody:	125647
Client Project Name:	PSC-PETRO-CHEM	Sample No:	16	Collect Date:	08/26/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	15:40

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-016A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	13		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-016** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	2873	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	287	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	287	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec
environmental
services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-016

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-23 (3-5)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**16**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-016** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	287	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	574	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	287	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	**64**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	**93**		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	57	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	110	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	U		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-23 (9-10)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**17**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:45**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 57680-017A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	08/30/13	MC130830	09/03/13	MC130830

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-017** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/29/13	V913H29C	08/30/13	V913H29C
2. Acrylonitrile	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
3. Benzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
4. Bromobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
5. Bromochloromethane	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
6. Bromodichloromethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
7. Bromoform	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
8. Bromomethane	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
9. t-Butanol (NN)	U		µg/kg	2957	1.0	08/29/13	V913H29C	08/30/13	V913H29C
10. 2-Butanone	U		µg/kg	295	1.0	08/29/13	V913H29C	08/30/13	V913H29C
11. n-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
12. sec-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
14. Carbon Disulfide	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
15. Carbon Tetrachloride	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
16. Chlorobenzene	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
17. Chloroethane	U		µg/kg	295	1.0	08/29/13	V913H29C	08/30/13	V913H29C
18. Chloroform	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
19. Chloromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
20. Cyclohexane (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
21. Dibromochloromethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
23. Dibromomethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
26. 1,4-Dichlorobenzene	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
29. 1,1-Dichloroethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
30. 1,2-Dichloroethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
32. cis-1,2-Dichloroethene	**110**		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
34. 1,2-Dichloropropane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-017

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-23 (9-10)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**17**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:45**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 57680-017** **Matrix: Soil/Solid** **Analyst: CCD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. cis-1,3-Dichloropropene	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
36. trans-1,3-Dichloropropene	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
37. Diethyl Ether	U		µg/kg	200	1.0	08/29/13	V913H29C	08/30/13	V913H29C
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
39. ETBE (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
40. Ethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
41. Ethylene Dibromide	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
42. Hexachloroethane	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
43. 2-Hexanone	U		µg/kg	295	1.0	08/29/13	V913H29C	08/30/13	V913H29C
44. Isopropylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
45. 4-Isopropyltoluene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
46. Methyl Iodide	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
47. Methylene Chloride	U		µg/kg	100	1.0	08/29/13	V913H29C	08/30/13	V913H29C
48. 2-Methylnaphthalene (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
49. 4-Methyl-2-pentanone	U		µg/kg	591	1.0	08/29/13	V913H29C	08/30/13	V913H29C
50. MTBE	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
51. Naphthalene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
52. n-Propylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
53. Styrene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
54. TAME (NN)	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
57. Tetrachloroethene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
58. Tetrahydrofuran (NN)	U		µg/kg	295	1.0	08/29/13	V913H29C	08/30/13	V913H29C
59. Toluene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
61. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	08/29/13	V913H29C	08/30/13	V913H29C
62. 1,1,1-Trichloroethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
63. 1,1,2-Trichloroethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
64. Trichloroethene	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
65. Trichlorofluoromethane	U		µg/kg	59	1.0	08/29/13	V913H29C	08/30/13	V913H29C
66. 1,2,3-Trichloropropane	U		µg/kg	120	1.0	08/29/13	V913H29C	08/30/13	V913H29C
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
68. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
69. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
70. Vinyl Chloride	U		µg/kg	50	1.0	08/29/13	V913H29C	08/30/13	V913H29C
71. Xylenes	U		µg/kg	150	1.0	08/29/13	V913H29C	08/30/13	V913H29C

Fibertec
environmental
services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-018

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-23 (7-11)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**18**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**16:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-018** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
9. t-Butanol (NN)	100	J,*	µg/L	50	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
18. Chloroform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 57680
Laboratory Sample Number: 57680-018

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-23 (7-11)**	Chain of Custody:	**125647**
Client Project Name:	**PSC-PETRO-CHEM**	Sample No:	**18**	Collect Date:	**08/26/13**
Client Project No:	**11013-000191**	Sample Matrix:	**Ground Water**	Collect Time:	**16:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 57680-018** **Matrix: Ground Water** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30B	08/31/13	VH13H30B
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	**41**		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
59. Toluene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

* : Duplicate analysis not within control limits.

Accreditation Number:

E-10395

Fibertec
environmental
services

0H
09-03-13

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VH13H30A **Preparation Date: 08/30/13**

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	10.0		110	100	110	19 - 165		111	1	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	1.00		125	100	125	43 - 155		123	2	20		MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		107	100	107	69 - 137		103	4	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		108	100	108	65 - 140		99	9	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		98.5	100	98	33 - 141		94	4	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		129	100	129	84 - 144		120	7	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		135	100	135	66 - 136		125	8	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	2.00		113	100	113	56 - 172		96	16	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	5.00		849	1,000	85	25 - 157		82	4	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		86.8	100	87	28 - 176		86	1	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		140	100	140	63 - 149		129	8	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		116	100	116	61 - 143		105	10	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		121	100	121	70 - 139		114	6	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	0.500		116	100	116	27 - 166		113	3	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		115	100	115	70 - 140		109	5	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		99.6	100	100	88 - 126		93	7	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	2.00		176	100	176	33 - 172	*	181	3	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		113	100	113	66 - 138		106	6	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	1.00		112	100	112	45 - 153		107	5	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	0.864		118	100	118	75 - 137		109	8	20		MB-1	LCS-1	LCD-1
21. 4-Chlorotoluene	U	1.00		118	100	118	79 - 137		111	6	20		MB-1	LCS-1	LCD-1
22. Cyclohexane	U	0.973		122	100	122	42 - 156		118	3	20		MB-1	LCS-1	LCD-1
23. Dibromochloromethane	U	1.00		127	100	127	83 - 127		118	7	20		MB-1	LCS-1	LCD-1
24. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		140	100	140	66 - 134	*	133	5	20		MB-1	LCS-1	LCD-1
25. Dibromomethane	U	1.00		105	100	105	67 - 148		98	7	20		MB-1	LCS-1	LCD-1
26. 1,2-Dichlorobenzene	U	1.00		113	100	113	71 - 154		105	7	20		MB-1	LCS-1	LCD-1
27. 1,3-Dichlorobenzene	U	1.00		113	100	113	74 - 156		106	6	20		MB-1	LCS-1	LCD-1
28. 1,4-Dichlorobenzene	U	1.00		100	100	100	89 - 121		94	6	20		MB-1	LCS-1	LCD-1
29. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		160	100	150	47 - 164		141	6	20		MB-1	LCS-1	LCD-1
30. Dichlorodifluoromethane	U	1.33		109	100	109	44 - 188		103	6	20		MB-1	LCS-1	LCD-1
31. 1,1-Dichloroethane	U	1.00		101	100	101	89 - 145		94	7	20		MB-1	LCS-1	LCD-1
32. 1,2-Dichloroethane	U	0.820		107	100	107	68 - 143		100	7	20		MB-1	LCS-1	LCD-1
33. 1,1-Dichloroethene	U	1.00		118	100	118	66 - 163		116	2	20		MB-1	LCS-1	LCD-1
34. cis-1,2-Dichloroethene	U	1.00		109	100	109	54 - 161		102	7	20		MB-1	LCS-1	LCD-1
35. trans-1,2-Dichloroethene	U	1.00		108	100	108	66 - 153		101	7	20		MB-1	LCS-1	LCD-1
36. 1,2-Dichloropropane	U	1.00		104	100	104	66 - 135		96	8	20		MB-1	LCS-1	LCD-1
37. 1,3-Dichloropropane	U	1.00		112	100	112	75 - 136		104	7	20		MB-1	LCS-1	LCD-1
38. 2,2-Dichloropropane	U	1.00		116	100	116	53 - 176		103	12	20		MB-1	LCS-1	LCD-1
39. 1,1-Dichloropropene	U	1.00		105	100	105	62 - 152		98	7	20		MB-1	LCS-1	LCD-1
40. cis-1,3-Dichloropropene	U	1.00		124	100	124	81 - 144		113	9	20		MB-1	LCS-1	LCD-1
41. trans-1,3-Dichloropropene	U	1.00		130	100	130	66 - 150		121	7	20		MB-1	LCS-1	LCD-1
42. Diethyl Ether	U	1.00		122	100	122	37 - 153		120	2	20		MB-1	LCS-1	LCD-1
43. Diisopropyl Ether	U	1.00		89.5	100	90	42 - 156		82	9	20		MB-1	LCS-1	LCD-1
44. ETBE	U	1.00		75.6	100	76	49 - 150		70	8	20		MB-1	LCS-1	LCD-1
45. Ethylbenzene	U	1.00		113	100	113	88 - 131		104	8	20		MB-1	LCS-1	LCD-1
46. Ethylene Dibromide	U	0.863		104	100	103	86 - 131		96	7	20		MB-1	LCS-1	LCD-1
47. Hexachlorobutadiene	U	2.50		122	100	122	72 - 144		113	8	20		MB-1	LCS-1	LCD-1
48. Hexachloroethane	U	1.00		130	100	130	37 - 171		120	8	20		MB-1	LCS-1	LCD-1
49. 2-Hexanone	U	2.00		106	100	106	37 - 183		101	5	20		MB-1	LCS-1	LCD-1

Fibertec
environmental
services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VH13H30A **Preparation Date: 08/30/13**

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
50. Isopropylbenzene	U	0.852		117	100	117	89 - 148		108	8	20		MB-1	LCS-1	LCD-1
51. 4-Isopropyltoluene	U	0.834		129	100	129	86 - 142		119	8	20		MB-1	LCS-1	LCD-1
52. Methyl Iodide	U	0.540		109	100	109	38 - 159		102	7	20		MB-1	LCS-1	LCD-1
53. Methylene Chloride	U	1.00		95.3	100	95	38 - 149		91	4	20		MB-1	LCS-1	LCD-1
54. 2-Methylnaphthalene	4.80	1.00	*	110	100	110	49 - 157		105	5	20		MB-1	LCS-1	LCD-1
55. 4-Methyl-2-pentanone	U	1.05		133	100	133	60 - 152		128	4	20		MB-1	LCS-1	LCD-1
56. MTBE	U	2.00		66.4	100	66	54 - 144		62	6	20		MB-1	LCS-1	LCD-1
57. Naphthalene	U	1.00		131	100	131	64 - 158		123	6	20		MB-1	LCS-1	LCD-1
58. n-Propylbenzene	U	1.00		119	100	119	64 - 146		111	7	20		MB-1	LCS-1	LCD-1
59. Styrene	U	1.00		117	100	117	79 - 129		109	7	20		MB-1	LCS-1	LCD-1
60. TAME	U	1.00		57.8	100	58	66 - 133	*	54	7	20		MB-1	LCS-1	LCD-1
61. 1,1,1,2-Tetrachloroethane	U	1.00		118	100	118	84 - 135		109	8	20		MB-1	LCS-1	LCD-1
62. 1,1,2,2-Tetrachloroethane	U	1.00		119	100	119	69 - 141		111	7	20		MB-1	LCS-1	LCD-1
63. Tetrachloroethene	U	1.00		111	100	111	81 - 145		103	7	20		MB-1	LCS-1	LCD-1
64. Tetrahydrofuran	U	5.00		87.0	100	87	33 - 148		83	5	20		MB-1	LCS-1	LCD-1
65. Toluene	U	1.00		107	100	107	77 - 135		90	8	20		MB-1	LCS-1	LCD-1
66. 1,2,3-Trichlorobenzene	U	1.00		119	100	119	74 - 147		112	6	20		MB-1	LCS-1	LCD-1
67. 1,2,4-Trichlorobenzene	U	1.00		122	100	122	73 - 152		113	8	20		MB-1	LCS-1	LCD-1
68. 1,1,1-Trichloroethane	U	1.00		102	100	102	69 - 143		94	8	20		MB-1	LCS-1	LCD-1
69. 1,1,2-Trichloroethane	U	1.00		101	100	101	84 - 122		91	10	20		MB-1	LCS-1	LCD-1
70. Trichloroethene	U	1.00		108	100	108	72 - 143		100	8	20		MB-1	LCS-1	LCD-1
71. Trichlorofluoromethane	U	1.00		150	100	150	41 - 161		145	3	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trichloropropane	U	1.00		103	100	102	82 - 127		98	4	20		MB-1	LCS-1	LCD-1
73. 1,2,3-Trimethylbenzene	U	1.00		115	100	115	80 - 133		106	8	20		MB-1	LCS-1	LCD-1
74. 1,2,4-Trimethylbenzene	U	1.00		122	100	122	81 - 140		111	9	20		MB-1	LCS-1	LCD-1
75. 1,3,5-Trimethylbenzene	U	1.00		118	100	118	82 - 140		110	7	20		MB-1	LCS-1	LCD-1
76. Vinyl Chloride	U	1.00		97.2	100	97	40 - 174		91	6	20		MB-1	LCS-1	LCD-1
77. m&p-Xylene	U	1.00		231	200	116	86 - 133		108	7	20		MB-1	LCS-1	LCD-1
78. o-Xylene	U	1.00		121	100	121	85 - 131		112	8	20		MB-1	LCS-1	LCD-1

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VH13H30A **Preparation Date: 08/30/13**

Parameter	Method Blank (MB) Result µg/L	PQL µg/L		Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD

System Monitoring Compounds (Surrogates):	Method Blank (MB) Result µg/L	Spike µg/L	Rec. %	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Dibromofluoromethane(S)	108	100	108		101	100	100	67 - 130		102	2	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	110	100	110		110	100	110	58 - 133		109	1	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	109	100	109		109	100	109	77 - 114		106	1	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	111	100	111		107	100	107	65 - 115		106	1	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VH13H30A	08/30/13 15:07
LCS-1	VH13H30A	08/30/13 13:00
LCD-1	VH13H30A	08/30/13 14:13

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Douglas Holmes

Douglas Holmes
Vice President
Tuesday, September 03, 2013
3:41:08 PM

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Preparation Batch: V913H29C **Preparation Date:** 08/29/13

Parameter | Method Blank (MB) Result µg/kg | PQL µg/kg | Q | Laboratory Control Sample (LCS) Result µg/kg | Spike µg/kg | Rec. % | LCL - UCL % | Q | LCS Duplicate (LCD) Rec. % | RPD % | UCL % | Q | Run Code MB | LCS | LCD

Parameter	Method Blank (MB) Result µg/kg	PQL µg/kg	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Acetone	U	315		5,141	5,000	103	40 - 207		94	9	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	50.0		5,020	5,000	100	45 - 180		95	5	20		MB-1	LCS-1	LCD-1
3. Benzene	U	25.0		4,551	5,000	91	63 - 141		90	1	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	25.0		4,553	5,000	91	70 - 144		89	2	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	100		4,797	5,000	96	42 - 161		91	5	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	50.0		4,657	5,000	93	60 - 150		93	0	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	100		4,621	5,000	92	50 - 117		88	4	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	100		4,256	5,000	85	58 - 217		86	1	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	2,500		50,865	50,000	102	42 - 156		92	10	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	250		5,033	5,000	101	42 - 193		93	8	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	25.0		5,258	5,000	105	65 - 151		104	1	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	25.0		5,061	5,000	101	68 - 147		99	2	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	25.0		4,992	5,000	100	68 - 140		96	4	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	100		4,738	5,000	95	36 - 143		93	2	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	50.0		4,858	5,000	97	50 - 159		96	1	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	50.0		4,755	5,000	95	72 - 135		95	0	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	250		5,316	5,000	106	16 - 207		100	6	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	50.0		4,361	5,000	87	47 - 159		85	2	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	50.0		4,840	5,000	97	14 - 185		93	4	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	25.0		4,835	5,000	97	73 - 141		93	4	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	50.0		5,117	5,000	102	52 - 195		99	3	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	50.0		5,375	5,000	107	59 - 130		106	1	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	25.0		5,240	5,000	105	34 - 164		96	9	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	50.0		4,467	5,000	89	66 - 134		87	2	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	25.0		4,772	5,000	95	76 - 128		94	1	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	25.0		4,753	5,000	95	72 - 136		93	2	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	50.0		4,697	5,000	94	74 - 127		92	2	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	25.0		4,864	5,000	97	56 - 153		91	6	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	125		4,824	5,000	96	10 - 207		94	2	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	50.0		4,494	5,000	90	42 - 157		87	3	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	50.0		4,157	5,000	83	56 - 146		82	1	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	25.0		4,591	5,000	92	34 - 165		88	4	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	25.0		4,520	5,000	90	43 - 170		88	2	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	25.0		4,510	5,000	90	49 - 162		87	3	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	50.0		4,840	5,000	97	62 - 151		94	3	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	25.0		5,063	5,000	101	77 - 132		99	2	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	50.0		4,001	5,000	80	52 - 169		79	1	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	50.0		4,808	5,000	96	52 - 153		94	2	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	50.0		4,686	5,000	94	45 - 156		93	1	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	50.0		4,897	5,000	98	40 - 157		95	3	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	50.0		4,905	5,000	98	30 - 167		95	3	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	25.0		5,201	5,000	104	38 - 167		102	2	20		MB-1	LCS-1	LCD-1
43. ETBE	U	25.0		5,049	5,000	101	40 - 159		98	3	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	25.0		4,700	5,000	94	76 - 137		92	2	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	50.0		4,901	5,000	98	71 - 133		96	2	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	100		5,328	5,000	107	79 - 142		105	2	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	100		5,755	5,000	115	42 - 151		114	1	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	250		5,120	5,000	102	29 - 211		95	7	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	25.0		4,877	5,000	98	68 - 153		97	1	20		MB-1	LCS-1	LCD-1

Fibertec
environmental
services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Preparation Batch: V913H29C **Preparation Date:** 08/29/13

Method Blank (MB) Laboratory Control Sample (LCS) LCS Duplicate (LCD) Run Code
Parameter Result µg/kg PQL µg/kg Q Result µg/kg Spike µg/kg Rec. % LCL - UCL % Q Rec. % RPD % UCL % Q MB LCS LCD

Parameter	Method Blank (MB) Result µg/kg	PQL µg/kg	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
50. 4-Isopropyltoluene	U	25.0		5,225	5,000	104	75 - 139		102	2	20		MB-1	LCS-1	LCD
51. Methyl Iodide	U	100		4,896	5,000	98	17 - 150		96	2	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	25.0		4,314	5,000	86	38 - 180		85	1	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	30.8	25.0	*	4,571	5,000	91	42 - 202		85	7	20		MB-1	LCS-1	LCD
54. 4-Methyl-2-pentanone	U	500		5,152	5,000	103	55 - 161		98	5	20		MB-1	LCS-1	LCD
55. MTBE	U	50.0		4,888	5,000	98	58 - 147		94	4	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	25.0		4,915	5,000	98	45 - 180		91	7	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	25.0		4,935	5,000	99	71 - 146		97	2	20		MB-1	LCS-1	LCD
58. Styrene	U	25.0		5,049	5,000	101	72 - 138		100	1	20		MB-1	LCS-1	LCD
59. TAME	U	100		4,760	5,000	95	51 - 135		92	3	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	50.0		5,335	5,000	107	61 - 131		105	2	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	50.0		5,174	5,000	103	72 - 145		98	5	20		MB-1	LCS-1	LCD
62. Tetrachloroethene	U	25.0		4,857	5,000	97	50 - 151		94	3	20		MB-1	LCS-1	LCD
63. Tetrahydrofuran	U	250		4,637	5,000	93	28 - 169		82	13	20		MB-1	LCS-1	LCD-1
64. Toluene	U	25.0		4,356	5,000	87	65 - 144		86	1	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	50.0		4,820	5,000	96	50 - 161		95	1	20		MB-1	LCS-1	LCD
66. 1,2,4-Trichlorobenzene	U	50.0		4,609	5,000	92	54 - 152		92	0	20		MB-1	LCS-1	LCD
67. 1,1,1-Trichloroethane	U	50.0		4,464	5,000	89	46 - 156		87	2	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	50.0		5,064	5,000	101	80 - 129		98	3	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	50.0		4,653	5,000	93	65 - 144		91	2	20		MB-1	LCS-1	LCD
70. Trichlorofluoromethane	U	50.0		5,403	5,000	108	31 - 226		102	6	20		MB-1	LCS-1	LCD
71. 1,2,3-Trichloropropane	U	100		4,915	5,000	98	74 - 139		91	7	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	25.0		4,889	5,000	98	77 - 133		94	4	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	25.0		5,028	5,000	101	71 - 139		98	3	20		MB-1	LCS-1	LCD
74. 1,3,5-Trimethylbenzene	U	25.0		5,127	5,000	103	71 - 138		99	4	20		MB-1	LCS-1	LCD
75. Vinyl Chloride	U	25.0		4,697	5,000	94	25 - 189		92	2	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	50.0		9,343	10,000	93	69 - 134		92	1	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	25.0		4,662	5,000	93	69 - 134		93	0	20		MB-1	LCS-1	LCD

1914 Holloway Drive Holt, MI 48842 T: (517) 699-0345 F: (517) 699-0388
11766 E. Grand River Brighton, MI 48116 T: (810) 220-3300 F: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, MI 49601 T: (231) 775-8368 F: (231) 775-8584
lab@fibertec.us

Fibertec
environmental
services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Preparation Batch: V913H29C **Preparation Date:** 08/29/13

Parameter	Method Blank (MB) Result µg/kg	PQL µg/kg	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD

System Monitoring Compounds (Surrogates):	Method Blank (MB) Result µg/kg	Spike µg/kg	Rec. %	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Dibromofluoromethane(S)	2,470	2,500	99		2,326	2,500	93	53 - 139		91	2	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	2,318	2,500	93		2,183	2,500	87	64 - 135		86	1	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	2,290	2,500	92		2,309	2,500	92	70 - 130		93	1	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	2,378	2,500	95		2,258	2,500	90	71 - 129		93	3	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	V913H29C	08/30/13 01:14
LCS-1	V913H29C	08/29/13 22:56
LCD-1	V913H29C	08/29/13 23:24

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Carine Dempsey

Carine Dempsey
Chemist, Volatile Organics
Friday, August 30, 2013
4:08:36 PM

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VI13H29B **Preparation Date:** 08/29/13

Parameter | Method Blank (MB) Result µg/L | PQL µg/L | Q | Laboratory Control Sample (LCS) Result µg/L | Spike µg/L | Rec. % | LCL - UCL % | Q | LCS Duplicate (LCD) Rec. % | RPD % | UCL % | Q | Run Code MB | LCS | LCD

Parameter	Method Blank (MB) Result µg/L	PQL µg/L	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Acetone	U	10.0		99.0	100	99	19 - 165		64	43	20	*	MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	2.00		110	100	110	43 - 155		82	29	20	*	MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		95.4	100	95	69 - 137		93	2	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		90.1	100	90	65 - 140		92	2	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		83.2	100	83	33 - 141		74	11	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		101	100	101	84 - 144		98	3	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		78.2	100	78	66 - 136		71	9	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	5.00		131	100	131	56 - 172		114	14	20		MB-1	LCS-1	LCD-1
9. 1-Butanol	U	10.0		1,005	1,000	101	25 - 157		74	31	20	*	MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		106	100	106	28 - 176		86	21	20	*	MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		102	100	102	63 - 149		108	6	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		99.0	100	99	61 - 143		101	2	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		99.8	100	100	70 - 139		101	1	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	1.00		90.7	100	91	27 - 166		88	3	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		108	100	108	70 - 140		103	5	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		96.3	100	96	88 - 126		96	0	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	5.00		79.8	100	80	33 - 172		74	8	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		90.0	100	90	66 - 138		89	1	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	2.00		99.2	100	99	45 - 153		89	11	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	1.00		92.8	100	93	75 - 137		95	2	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	1.00		96.7	100	97	42 - 156		96	1	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	1.00		108	100	108	83 - 127		113	5	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		114	100	114	66 - 134		111	3	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	1.00		108	100	108	67 - 148		102	6	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	1.00		103	100	103	71 - 154		103	0	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	1.00		97.1	100	97	74 - 156		97	0	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	1.00		94.6	100	95	89 - 121		96	1	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		108	100	108	47 - 164		104	4	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	5.00		105	100	105	44 - 188		105	0	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	1.00		90.3	100	90	59 - 145		89	1	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	1.00		95.7	100	96	68 - 143		91	5	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	1.00		87.3	100	87	56 - 163		85	2	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	1.00		90.8	100	91	54 - 161		88	3	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	1.00		88.0	100	88	56 - 153		88	0	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	1.00		98.2	100	98	86 - 135		95	3	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	1.00		101	100	101	75 - 136		104	3	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	1.00		98.1	100	98	53 - 176		96	2	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	1.00		94.7	100	95	62 - 152		93	2	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	1.00		105	100	105	81 - 144		101	4	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	1.00		106	100	106	68 - 150		101	5	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	2.00		90.9	100	91	37 - 153		89	2	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	1.00		94.5	100	95	42 - 156		93	2	20		MB-1	LCS-1	LCD-1
43. ETBE	U	1.00		94.1	100	94	49 - 150		93	1	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	1.00		97.1	100	97	88 - 131		97	0	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	1.00		103	100	103	86 - 131		104	1	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	5.00		117	100	117	72 - 144		138	16	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	1.00		104	100	104	37 - 171		104	0	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	5.00		112	100	112	37 - 183		102	9	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	1.00		100	100	100	89 - 148		95	5	20		MB-1	LCS-1	LCD-1

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

Fibertec
environmental
services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VI13H29B **Preparation Date: 08/29/13**

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
50. 4-Isopropyltoluene	U	1.00		105	100	105	86 - 142		108	3	20		MB-1	LCS-1	LCD-1
51. Methyl Iodide	U	1.00		95.0	100	95	38 - 159		100	5	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	5.00		85.3	100	85	38 - 149		77	10	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	U	5.00		120	100	120	49 - 157		133	10	20		MB-1	LCS-1	LCD-1
54. 4-Methyl-2-pentanone	U	5.00		113	100	113	60 - 152		98	14	20		MB-1	LCS-1	LCD-1
55. MTBE	U	2.00		96.1	100	96	54 - 144		94	2	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	5.00		114	100	114	64 - 158		123	8	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	1.00		96.3	100	96	84 - 146		98	2	20		MB-1	LCS-1	LCD-1
58. Styrene	U	1.00		91.7	100	92	79 - 129		86	7	20		MB-1	LCS-1	LCD-1
59. TAME	U	1.00		100	100	100	65 - 133		97	3	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	1.00		103	100	103	84 - 135		101	2	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	1.00		105	100	105	69 - 141		102	3	20		MB-1	LCS-1	LCD-1
62. Tetrachloroethene	U	1.00		98.8	100	99	81 - 145		104	5	20		MB-1	LCS-1	LCD-1
63. Tetrahydrofuran	U	5.00		100	100	100	33 - 148		82	20	20		MB-1	LCS-1	LCD-1
64. Toluene	U	1.00		95.1	100	95	77 - 135		92	3	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	5.00		113	100	113	74 - 147		130	14	20		MB-1	LCS-1	LCD-1
66. 1,2,4-Trichlorobenzene	U	5.00		109	100	109	73 - 152		125	14	20		MB-1	LCS-1	LCD-1
67. 1,1,1-Trichloroethane	U	1.00		92.5	100	92	69 - 143		92	0	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	1.00		101	100	101	84 - 122		104	3	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	1.00		101	100	101	72 - 143		98	3	20		MB-1	LCS-1	LCD-1
70. Trichlorofluoromethane	U	1.00		88.0	100	88	41 - 181		88	0	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trichloropropane	U	1.00		99.6	100	100	82 - 127		97	3	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	1.00		97.7	100	98	80 - 133		100	2	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	1.00		101	100	101	81 - 140		102	1	20		MB-1	LCS-1	LCD-1
74. 1,3,5-Trimethylbenzene	U	1.00		100	100	100	82 - 140		102	2	20		MB-1	LCS-1	LCD-1
75. Vinyl Chloride	U	1.00		86.2	100	86	40 - 174		84	2	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	1.00		195	200	98	86 - 133		96	2	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	1.00		90.3	100	90	85 - 131		87	3	20		MB-1	LCS-1	LCD-1

1914 Holloway Drive Holt, MI 48842 T: (517) 699-0345 F: (517) 699-0388
11766 E. Grand River Brighton, MI 48116 T: (810) 220-3300 F: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, MI 49601 T: (231) 775-8368 F: (231) 775-8584
lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VI13H29B **Preparation Date:** 08/29/13

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD

	Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
System Monitoring Compounds (Surrogates):	Result µg/L	Spike µg/L	Rec. %	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Dibromofluoromethane(S)	47.0	50.0	94		46.4	50.0	93	67 - 130		92	1	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	47.6	50.0	95		46.4	50.0	93	58 - 133		88	6	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	48.7	50.0	97		48.1	50.0	96	77 - 114		93	3	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	48.6	50.0	97		47.9	50.0	96	65 - 115		89	8	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VI13H29B	08/30/13 00:02
LCS-1	VI13H29B	08/29/13 22:42
LCD-1	VI13H29B	08/29/13 23:09

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Jeffrey LeClair

Jeffrey LeClair
Chemist, Volatile Organics
Tuesday, September 03, 2013
11:32:01 AM

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VI13H30A **Preparation Date:** 08/30/13

	Parameter	Method Blank (MB) Result µg/L	PQL µg/L	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1.	Acetone	U	10.0		77.0	100	77	19 - 165		85	10	20		MB-1	LCS-1	LCD-1
2.	Acrylonitrile	U	2.00		96.5	100	97	43 - 155		107	10	20		MB-1	LCS-1	LCD-1
3.	Benzene	U	1.00		95.5	100	96	69 - 137		100	4	20		MB-1	LCS-1	LCD-1
4.	Bromobenzene	U	1.00		93.9	100	94	65 - 140		96	2	20		MB-1	LCS-1	LCD-1
5.	Bromochloromethane	U	1.00		87.8	100	88	33 - 141		90	2	20		MB-1	LCS-1	LCD-1
6.	Bromodichloromethane	U	1.00		102	100	102	84 - 144		105	3	20		MB-1	LCS-1	LCD-1
7.	Bromoform	U	1.00		72.6	100	73	66 - 136		80	9	20		MB-1	LCS-1	LCD-1
8.	Bromomethane	U	5.00		150	100	150	56 - 172		146	3	20		MB-1	LCS-1	LCD-1
9.	t-Butanol	U	10.0		464	1,000	46	25 - 157		63	31	20	*	MB-1	LCS-1	LCD-1
10.	2-Butanone	U	5.00		83.1	100	83	28 - 176		97	16	20		MB-1	LCS-1	LCD-1
11.	n-Butylbenzene	U	1.00		103	100	103	63 - 149		107	4	20		MB-1	LCS-1	LCD-1
12.	sec-Butylbenzene	U	1.00		99.5	100	99	61 - 143		104	5	20		MB-1	LCS-1	LCD-1
13.	tert-Butylbenzene	U	1.00		100	100	100	70 - 139		105	5	20		MB-1	LCS-1	LCD-1
14.	Carbon Disulfide	U	1.00		90.4	100	90	27 - 166		95	5	20		MB-1	LCS-1	LCD-1
15.	Carbon Tetrachloride	U	1.00		106	100	106	70 - 140		111	5	20		MB-1	LCS-1	LCD-1
16.	Chlorobenzene	U	1.00		98.0	100	98	88 - 126		101	3	20		MB-1	LCS-1	LCD-1
17.	Chloroethane	U	5.00		81.4	100	81	33 - 172		86	6	20		MB-1	LCS-1	LCD-1
18.	Chloroform	U	1.00		92.1	100	92	66 - 138		97	5	20		MB-1	LCS-1	LCD-1
19.	Chloromethane	U	2.00		90.9	100	91	45 - 153		107	16	20		MB-1	LCS-1	LCD-1
20.	2-Chlorotoluene	U	1.00		96.5	100	96	75 - 137		101	5	20		MB-1	LCS-1	LCD-1
21.	Cyclohexane	U	1.00		91.3	100	91	42 - 156		97	6	20		MB-1	LCS-1	LCD-1
22.	Dibromochloromethane	U	1.00		111	100	111	83 - 127		115	4	20		MB-1	LCS-1	LCD-1
23.	1,2-Dibromo-3-chloropropane (SIM)	U	1.00		94.2	100	94	66 - 134		108	14	20		MB-1	LCS-1	LCD-1
24.	Dibromomethane	U	1.00		105	100	105	67 - 148		109	4	20		MB-1	LCS-1	LCD-1
25.	1,2-Dichlorobenzene	U	1.00		103	100	103	71 - 154		109	6	20		MB-1	LCS-1	LCD-1
26.	1,3-Dichlorobenzene	U	1.00		99.4	100	99	74 - 156		103	4	20		MB-1	LCS-1	LCD-1
27.	1,4-Dichlorobenzene	U	1.00		95.9	100	96	89 - 121		101	5	20		MB-1	LCS-1	LCD-1
28.	trans-1,4-Dichloro-2-butene (SIM)	U	1.00		105	100	105	47 - 164		115	9	20		MB-1	LCS-1	LCD-1
29.	Dichlorodifluoromethane	U	5.00		102	100	102	44 - 188		106	4	20		MB-1	LCS-1	LCD-1
30.	1,1-Dichloroethane	U	1.00		92.1	100	92	59 - 145		98	6	20		MB-1	LCS-1	LCD-1
31.	1,2-Dichloroethane	U	1.00		96.6	100	97	68 - 143		99	2	20		MB-1	LCS-1	LCD-1
32.	1,1-Dichloroethene	U	1.00		86.8	100	87	56 - 163		91	4	20		MB-1	LCS-1	LCD-1
33.	cis-1,2-Dichloroethene	U	1.00		93.0	100	93	54 - 161		97	4	20		MB-1	LCS-1	LCD-1
34.	trans-1,2-Dichloroethene	U	1.00		90.1	100	90	56 - 153		94	4	20		MB-1	LCS-1	LCD-1
35.	1,2-Dichloropropane	U	1.00		98.2	100	98	66 - 135		103	5	20		MB-1	LCS-1	LCD-1
36.	1,3-Dichloropropane	U	1.00		102	100	102	75 - 136		107	5	20		MB-1	LCS-1	LCD-1
37.	2,2-Dichloropropane	U	1.00		105	100	105	53 - 176		110	5	20		MB-1	LCS-1	LCD-1
38.	1,1-Dichloropropene	U	1.00		94.2	100	94	62 - 152		101	7	20		MB-1	LCS-1	LCD-1
39.	cis-1,3-Dichloropropene	U	1.00		107	100	107	81 - 144		110	3	20		MB-1	LCS-1	LCD-1
40.	trans-1,3-Dichloropropene	U	1.00		108	100	108	66 - 150		112	4	20		MB-1	LCS-1	LCD-1
41.	Diethyl Ether	U	2.00		91.8	100	92	37 - 153		96	4	20		MB-1	LCS-1	LCD-1
42.	Diisopropyl Ether	U	1.00		96.3	100	96	42 - 156		101	5	20		MB-1	LCS-1	LCD-1
43.	ETBE	U	1.00		95.0	100	95	49 - 150		99	4	20		MB-1	LCS-1	LCD-1
44.	Ethylbenzene	U	1.00		100	100	100	88 - 131		104	4	20		MB-1	LCS-1	LCD-1
45.	Ethylene Dibromide	U	1.00		102	100	102	86 - 131		107	5	20		MB-1	LCS-1	LCD-1
46.	Hexachlorobutadiene	U	5.00		119	100	119	72 - 144		122	2	20		MB-1	LCS-1	LCD-1
47.	Hexachloroethane	U	1.00		104	100	104	37 - 171		109	5	20		MB-1	LCS-1	LCD-1
48.	2-Hexanone	U	5.00		89.0	100	89	37 - 163		104	16	20		MB-1	LCS-1	LCD-1
49.	Isopropylbenzene	U	1.00		101	100	101	89 - 148		105	4	20		MB-1	LCS-1	LCD-1

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VI13H30A **Preparation Date: 08/30/13**

Parameter	Method Blank (MB) Result µg/L	PQL µg/L	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCI
Parameter	Method Blank (MB) Result µg/L	PQL µg/L	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCI
50. 4-Isopropyltoluene	U	1.00		106	100	106	86 - 142		110	4	20		MB-1	LCS-1	LCD
51. Methyl Iodide	U	1.00		107	100	107	38 - 159		109	2	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	5.00		88.6	100	89	38 - 149		92	3	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	U	5.00		76.5	100	76	49 - 157		103	30	20	*	MB-1	LCS-1	LCD
54. 4-Methyl-2-pentanone	U	5.00		92.2	100	92	60 - 152		104	12	20		MB-1	LCS-1	LCD
55. MTBE	U	2.00		94.6	100	95	54 - 144		101	6	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	5.00		99.3	100	99	64 - 158		113	13	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	1.00		99.0	100	99	64 - 146		103	4	20		MB-1	LCS-1	LCD
58. Styrene	U	1.00		89.7	100	90	79 - 129		97	7	20		MB-1	LCS-1	LCD
59. TAME	U	1.00		98.8	100	99	66 - 133		103	4	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	1.00		105	100	105	84 - 135		107	2	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	1.00		98.0	100	98	69 - 141		108	10	20		MB-1	LCS-1	LCD
62. Tetrachloroethene	U	1.00		101	100	101	81 - 145		104	3	20		MB-1	LCS-1	LCD
63. Tetrahydrofuran	U	5.00		79.3	100	79	33 - 148		94	17	20		MB-1	LCS-1	LCD-1
64. Toluene	U	1.00		95.8	100	96	77 - 135		99	3	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	5.00		106	100	106	74 - 147		116	9	20		MB-1	LCS-1	LCD
66. 1,2,4-Trichlorobenzene	U	5.00		111	100	111	73 - 152		117	5	20		MB-1	LCS-1	LCD
67. 1,1,1-Trichloroethane	U	1.00		93.1	100	93	69 - 143		99	6	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	1.00		103	100	103	84 - 122		107	4	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	1.00		100	100	100	72 - 143		105	5	20		MB-1	LCS-1	LCD
70. Trichlorofluoromethane	U	1.00		86.3	100	86	41 - 161		91	6	20		MB-1	LCS-1	LCD
71. 1,2,3-Trichloropropane	U	1.00		93.6	100	94	82 - 127		103	9	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	1.00		99.1	100	99	80 - 133		105	6	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	1.00		103	100	103	81 - 140		108	5	20		MB-1	LCS-1	LCD
74. 1,3,5-Trimethylbenzene	U	1.00		103	100	103	82 - 140		107	4	20		MB-1	LCS-1	LCD
75. Vinyl Chloride	U	1.00		88.3	100	88	40 - 174		92	4	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	1.00		200	200	100	86 - 133		105	5	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	1.00		92.5	100	92	85 - 131		95	3	20		MB-1	LCS-1	LCD

1914 Holloway Drive Holt, MI 48842 T: (517) 699-0345 F: (517) 699-0388
11766 E. Grand River Brighton, MI 48116 T: (810) 220-3300 F: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, MI 49601 T: (231) 775-8368 F: (231) 775-8584
lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VI13H30A **Preparation Date: 08/30/13**

Parameter	Method Blank (MB) Result µg/L	PQL µg/L		Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD

System Monitoring Compounds (Surrogates):	Method Blank (MB) Result µg/L	Spike µg/L	Rec. %	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Dibromofluoromethane(S)	47.6	50.0	95		47.8	50.0	96	67 - 130		95	1	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	47.7	50.0	95		46.0	50.0	92	58 - 133		92	0	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	48.1	50.0	96		47.6	50.0	95	77 - 114		96	1	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	47.2	50.0	94		48.0	50.0	96	65 - 115		96	0	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VI13H30A	08/30/13 12:22
LCS-1	VI13H30A	08/30/13 11:02
LCD-1	VI13H30A	08/30/13 11:29

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Jeffrey LeClair
Chemist, Volatile Organics
Tuesday, September 03, 2013
9:53:16 AM

Fibertec
environmental
services

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

DW
09-03-13

Preparation Batch: VH13H30B **Preparation Date: 08/30/13**

Method Blank (MB) Laboratory Control Sample (LCS) LCS Duplicate (LCD) Run Code
Parameter Result µg/L PQL µg/L Q Result µg/L Spike µg/L Rec. % LCL - UCL % Q Rec. % RPD % UCL % Q MB LCS LCD

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	10.0		117	100	117	19 - 165		129	10	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	1.00		122	100	122	43 - 155		129	6	20		MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		108	100	108	69 - 137		99	9	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		107	100	107	65 - 140		102	5	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		95.7	100	96	33 - 141		90	6	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		128	100	128	84 - 144		120	6	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		129	100	129	66 - 136		133	3	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	2.00		122	100	122	56 - 172		95	25	20	*	MB-1	LCS-1	LCD-1
9. 1-Butanol	U	5.00		898	1,000	90	25 - 157		112	22	20	*	MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		86.4	100	86	28 - 176		96	11	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		135	100	135	63 - 149		126	7	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		119	100	119	61 - 143		110	8	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		122	100	122	70 - 139		114	7	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	0.500		115	100	115	27 - 166		99	15	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		115	100	115	70 - 140		102	12	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		98.9	100	99	88 - 126		93	6	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	2.00		166	100	166	33 - 172		155	7	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		112	100	112	66 - 138		103	8	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	1.06		115	100	115	45 - 153		103	11	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	0.864		117	100	117	75 - 137		110	6	20		MB-1	LCS-1	LCD-1
21. 4-Chlorotoluene	U	1.00		117	100	117	79 - 137		112	4	20		MB-1	LCS-1	LCD-1
22. Cyclohexane	U	0.973		125	100	125	42 - 156		114	9	20		MB-1	LCS-1	LCD-1
23. Dibromochloromethane	U	1.00		125	100	125	83 - 127		122	2	20		MB-1	LCS-1	LCD-1
24. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		140	100	140	66 - 134	*	157	11	20		MB-1	LCS-1	LCD-1
25. Dibromomethane	U	1.00		104	100	104	67 - 148		104	0	20		MB-1	LCS-1	LCD-1
26. 1,2-Dichlorobenzene	U	1.00		112	100	112	71 - 154		108	4	20		MB-1	LCS-1	LCD-1
27. 1,3-Dichlorobenzene	U	1.00		112	100	112	74 - 156		106	6	20		MB-1	LCS-1	LCD-1
28. 1,4-Dichlorobenzene	U	1.00		99.3	100	99	89 - 121		94	5	20		MB-1	LCS-1	LCD-1
29. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		142	100	142	47 - 164		146	3	20		MB-1	LCS-1	LCD-1
30. Dichlorodifluoromethane	U	1.33		118	100	118	44 - 188		106	11	20		MB-1	LCS-1	LCD-1
31. 1,1-Dichloroethane	U	1.00		100	100	100	59 - 145		93	7	20		MB-1	LCS-1	LCD-1
32. 1,2-Dichloroethane	U	0.820		104	100	104	68 - 143		99	5	20		MB-1	LCS-1	LCD-1
33. 1,1-Dichloroethene	U	1.00		119	100	119	56 - 163		103	14	20		MB-1	LCS-1	LCD-1
34. cis-1,2-Dichloroethene	U	1.00		109	100	109	54 - 161		101	8	20		MB-1	LCS-1	LCD-1
35. trans-1,2-Dichloroethene	U	1.00		108	100	108	56 - 153		98	10	20		MB-1	LCS-1	LCD-1
36. 1,2-Dichloropropane	U	1.00		104	100	104	66 - 135		98	6	20		MB-1	LCS-1	LCD-1
37. 1,3-Dichloropropane	U	1.00		111	100	111	75 - 136		109	2	20		MB-1	LCS-1	LCD-1
38. 2,2-Dichloropropane	U	1.00		90.1	100	90	53 - 176		78	14	20		MB-1	LCS-1	LCD-1
39. 1,1-Dichloropropene	U	1.00		105	100	105	62 - 152		95	10	20		MB-1	LCS-1	LCD-1
40. cis-1,3-Dichloropropene	U	1.00		118	100	118	81 - 144		111	6	20		MB-1	LCS-1	LCD-1
41. trans-1,3-Dichloropropene	U	1.00		122	100	122	66 - 150		116	5	20		MB-1	LCS-1	LCD-1
42. Diethyl Ether	U	1.00		120	100	120	37 - 153		112	7	20		MB-1	LCS-1	LCD-1
43. Diisopropyl Ether	U	1.00		90.6	100	91	42 - 156		84	8	20		MB-1	LCS-1	LCD-1
44. ETBE	U	1.00		83.5	100	83	49 - 150		81	2	20		MB-1	LCS-1	LCD-1
45. Ethylbenzene	U	1.00		112	100	112	88 - 131		105	6	20		MB-1	LCS-1	LCD-1
46. Ethylene Dibromide	U	0.863		103	100	103	86 - 131		104	1	20		MB-1	LCS-1	LCD-1
47. Hexachlorobutadiene	U	2.50		115	100	115	72 - 144		108	6	20		MB-1	LCS-1	LCD-1
48. Hexachloroethane	U	1.00		125	100	125	37 - 171		117	7	20		MB-1	LCS-1	LCD-1
49. 2-Hexanone	U	2.00		104	100	104	37 - 183		120	14	20		MB-1	LCS-1	LCD-1

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*
lab@fibertec.us

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VH13H30B **Preparation Date: 08/30/13**

Parameter	Method Blank (MB) Result µg/L	PQL µg/L	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
50. Isopropylbenzene	U	0.852		117	100	117	89 - 148		109	7	20		MB-1	LCS-1	LCD-1
51. 4-Isopropyltoluene	U	0.634		128	100	128	86 - 142		119	7	20		MB-1	LCS-1	LCD-1
52. Methyl Iodide	U	0.540		113	100	113	38 - 159		96	16	20		MB-1	LCS-1	LCD-1
53. Methylene Chloride	U	1.00		94.9	100	95	38 - 140		87	9	20		MB-1	LCS-1	LCD-1
54. 2-Methylnaphthalene	4.78	1.00	*	105	100	105	49 - 157		122	15	20		MB-1	LCS-1	LCD-1
55. 4-Methyl-2-pentanone	U	1.05		131	100	131	60 - 152		147	12	20		MB-1	LCS-1	LCD-1
56. MTBE	U	2.00		72.1	100	72	54 - 144		71	1	20		MB-1	LCS-1	LCD-1
57. Naphthalene	U	1.00		130	100	130	64 - 158		138	6	20		MB-1	LCS-1	LCD-1
58. n-Propylbenzene	U	1.00		118	100	118	64 - 146		110	7	20		MB-1	LCS-1	LCD-1
59. Styrene	U	1.00		117	100	117	79 - 120		112	4	20		MB-1	LCS-1	LCD-1
60. TAME	U	1.00		63.3	100	63	66 - 133	*	62	2	20		MB-1	LCS-1	LCD-1
61. 1,1,1,2-Tetrachloroethane	U	1.00		116	100	116	84 - 135		110	4	20		MB-1	LCS-1	LCD-1
62. 1,1,2,2-Tetrachloroethane	U	1.00		117	100	117	69 - 141		124	6	20		MB-1	LCS-1	LCD-1
63. Tetrachloroethene	U	1.00		110	100	110	81 - 145		103	7	20		MB-1	LCS-1	LCD-1
64. Tetrahydrofuran	U	5.00		85.9	100	86	33 - 148		96	11	20		MB-1	LCS-1	LCD-1
65. Toluene	U	1.00		107	100	107	77 - 135		99	8	20		MB-1	LCS-1	LCD-1
66. 1,2,3-Trichlorobenzene	U	1.00		117	100	117	74 - 147		116	1	20		MB-1	LCS-1	LCD-1
67. 1,2,4-Trichlorobenzene	U	1.00		118	100	118	73 - 152		115	3	20		MB-1	LCS-1	LCD-1
68. 1,1,1-Trichloroethane	U	1.00		101	100	101	69 - 143		91	10	20		MB-1	LCS-1	LCD-1
69. 1,1,2-Trichloroethane	U	1.00		100	100	100	84 - 122		99	1	20		MB-1	LCS-1	LCD-1
70. Trichloroethene	U	1.00		108	100	108	72 - 143		102	6	20		MB-1	LCS-1	LCD-1
71. Trichlorofluoromethane	U	1.00		152	100	152	41 - 181		128	17	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trichloropropane	U	1.00		99.7	100	100	82 - 127		106	6	20		MB-1	LCS-1	LCD-1
73. 1,2,3-Trimethylbenzene	U	1.00		114	100	114	80 - 133		107	6	20		MB-1	LCS-1	LCD-1
74. 1,2,4-Trimethylbenzene	U	1.00		120	100	120	81 - 140		113	6	20		MB-1	LCS-1	LCD-1
75. 1,3,5-Trimethylbenzene	U	1.00		118	100	118	82 - 140		110	7	20		MB-1	LCS-1	LCD-1
76. Vinyl Chloride	U	1.00		114	100	114	40 - 174		88	26	20	*	MB-1	LCS-1	LCD-1
77. m&p-Xylene	U	1.00		230	200	115	86 - 133		108	6	20		MB-1	LCS-1	LCD-1
78. o-Xylene	U	1.00		120	100	120	85 - 131		113	6	20		MB-1	LCS-1	LCD-1

Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Preparation Batch: VH13H30B **Preparation Date: 08/30/13**

Parameter	Method Blank (MB) Result µg/L	PQL µg/L		Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD

System Monitoring Compounds (Surrogates):	Method Blank (MB) Result µg/L	Spike µg/L	Rec. %	Q	Laboratory Control Sample (LCS) Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Dibromofluoromethane(S)	98.6	100	99		99.4	100	99	67 - 130		98	1	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	108	100	108		106	100	106	68 - 133		106	0	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	109	100	109		109	100	109	77 - 114		110	1	20		MB-1	LCS-1	LCD-
4. 4-Bromofluorobenzene(S)	109	100	109		107	100	107	65 - 115		106	1	20		MB-1	LCS-1	LCD-

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VH13H30B	08/31/13 04:08
LCS-1	VH13H30B	08/31/13 02:47
LCD-1	VH13H30B	08/31/13 03:14

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Douglas Holmes

Douglas Holmes
Vice President
Tuesday, September 03, 2013
3:59:53 PM

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive, Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail, Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive, Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River, Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 125646
PAGE 1 of 2

Client Name: BURGAU BRITINS
Contact Person: KELLIE WING
Project Name/ Number: PSC- PETRO-CHEM 11013-00019]
QUOTE#
Purchase Order#

Turnaround: [ ] 24 hour RUSH (surcharge applies) [ ] 48 hour RUSH (surcharge applies) [ ] 72 hour RUSH (surcharge applies) [X] Standard (5-7 bus. days) [ ] Other: Specify

Matrix Code: S Soil; GW Ground Water; A Air; SW Surface Water; O Oil; WW Waste Water; P Wipe; X Other: Specify

[ ] FES Drilling Services

Deliverables: [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] EDD

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOCs 8260B (PARAMETERS)	Remarks
	8/26/13			TB-03	GW	2	Y	X	
	8/26/13	1035		BSB-19 (3-5)	S	2	Y	X	
	8/26/13	1040		BSB-19 (5-7)	S	2	Y	X	
	8/26/13	1103		BSB-19 (7-11)	GW	3	Y	X	
	8/26/13	1120		FB-02	GW	2	Y	X	
	8/26/13	1200		BSB-20 (3-5)	S	2	Y	X	
	8/26/13	1205		BSB-20 (5-7)	S	2	Y	X	
	8/26/13	1220		BSB-20 (7-11)	GW	3	Y	X	
	8/26/13	1300		BSB-21 (3-5)	S	2	Y	X	
	8/26/13	1305		BSB-21 (5-7)	S	2	Y	X	

Comments: MDEQ OP MANY CONT & REVISED & LODS

	Date/ Time		
Relinquished By: [signature]	8/26/13 1745	Received By: [signature]	8/28/13 12:30
Relinquished By: [signature]	8/28/13 3:23	Received By: [signature]	
Relinquished By:	Date/ Time	Received By Laboratory: [signature]	

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

RCV'D ON ICE 4.4

COC Revision: February, 2013

TERMS & CONDITIONS ON BACK

57680

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive, Holt, MI 48842, Phone: 517 699 0345, Fax: 517 699 0388, email: lab@fibertec.us
8660 S. Mackinaw Trail, Cadillac, MI 49601, Phone: 231 775 8368, Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive, Holt, MI 48842, Phone: 517 699 0345, Fax: 517 699 0382, email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River, Brighton, MI 48116, Phone: 810 220 3300, Fax: 810 220 3311

Chain of Custody # 125647
PAGE 2 of 2

Client Name: Bureau Veritas
Contact Person: Kelli King
Project Name/ Number: PSC- Petrochem 11013-000191
QUOTE#
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOCs 8260B
	8/26/13	1320		BSB-21 (7-11)	GW	3	Y	X
	8/26/13	1335		~~GTSBAAAA~~ DUP-05	GW	3	Y	X
	8/26/13	1415		BSB-22 (3-5)	S	2	Y	X
	8/26/13	1450		BSB-22 (9-10)	S	2	Y	X
	8/26/13	1500		BSB-22 (10-14)	GW	3	Y	X
	8/26/13	1540		BSB-23 (3-5)	S	2	Y	X
	8/26/13	1545		BSB-23 (9-10)	S	2	Y	X
	8/26/13	1605		BSB-23 (7-11)	GW	3	Y	X

Turnaround: ☐ 24 hour RUSH (surcharge applies) ☐ 48 hour RUSH (surcharge applies) ☐ 72 hour RUSH (surcharge applies) ☒ Standard (5-7 bus. days) ☐ Other: Specify

Matrix Code: S Soil; GW Ground Water; A Air; SW Surface Water; O Oil; WW Waste Water; P Wipe; X Other: Specify

☐ FES Drilling Services

Deliverables: ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD

Remarks:

Comments: NDEQ DP LIMITS GENL REVISED 8 LODS

Relinquished By:	Date/ Time	Received By:
[signature]	8/26/13 1443	[signature] 8/28/13 12:30
Relinquished By: [signature]	Date/ Time 8/28/13 3:23	Received By: [signature]
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY: RCV'D ON ICE
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt: 4.4

COC Revision: February, 2013

TERMS & CONDITIONS ON BACK