

**APPENDIX H - INITIAL ABIOTIC SURVEY LABORATORY RESULTS**



LL Sample No. WW 3361743

Collected: 04/08/2000 14:00 by KR

Submitted: 04/14/2000 09:10

Reported: 05/09/00 at 04:36 PM

Discard: 5/17/00

SW-2 (6,7) Water Sample

Project: Chalk Point - Swanson's Creek

Account Number: 08367

ENTRIX, Incorporated

10 Corporate Circle

Suite 100

New Castle DE 19720

SW267 SDG#: ATF51-03

| CAT No. | Analysis Name                  | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--------------------------------|------------|--------------------|------------------------------------|-------|-----------------|
| 08407   | STARS Petroleum Contaminants W |            |                    |                                    |       |                 |
| 08540   | Methyl t-Butyl Ether           | 1634-04-4  | 2.6                | 0.2                                | ug/l  | 1               |
| 08541   | Benzene                        | 71-43-2    | 0.3 J              | 0.2                                | ug/l  | 1               |
| 08543   | Toluene                        | 108-88-3   | 1.2                | 0.2                                | ug/l  | 1               |
| 08545   | Ethylbenzene                   | 100-41-4   | 0.3 J              | 0.2                                | ug/l  | 1               |
| 08547   | m,p-Xylene                     | 1330-20-7  | 1.0 J              | 0.4                                | ug/l  | 1               |
| 08550   | o-Xylene                       | 95-47-6    | 0.4 J              | 0.2                                | ug/l  | 1               |
| 08552   | Isopropylbenzene (Cumene)      | 98-82-8    | N.D.               | 0.2                                | ug/l  | 1               |
| 08553   | n-Propylbenzene                | 103-65-1   | N.D.               | 0.2                                | ug/l  | 1               |
| 08554   | 1,3,5-Trimethylbenzene         | 108-67-8   | N.D.               | 0.2                                | ug/l  | 1               |
| 08555   | tert-Butylbenzene              | 98-06-6    | N.D.               | 0.2                                | ug/l  | 1               |
| 08556   | 1,2,4-Trimethylbenzene         | 95-63-6    | 0.5 J              | 0.2                                | ug/l  | 1               |
| 08557   | sec-Butylbenzene               | 135-98-8   | N.D.               | 0.2                                | ug/l  | 1               |
| 08558   | p-Isopropyltoluene             | 99-87-6    | N.D.               | 0.2                                | ug/l  | 1               |
| 08559   | n-Butylbenzene                 | 104-51-8   | N.D.               | 0.2                                | ug/l  | 1               |
| 08560   | Naphthalene                    | 91-20-3    | 0.3 J              | 0.2                                | ug/l  | 1               |

### Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst        | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|----------------|-----------------|
| 08407   | STARS Petroleum Contaminants W | SW-846 8021B | 1      | 04/18/2000 08:08       | Todd T. Smythe | 1               |



Lancaster Laboratories  
 2425 New Holland Pike  
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 717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.  
 See reverse side for explanation of symbols and abbreviations.



LL Sample No. WW 3361745

Collected: 04/08/2000 16:00 by KR

Submitted: 04/14/2000 09:10

Reported: 05/09/00 at 04:36 PM

Discard: 5/17/00

SW-3 (10,11) Water Sample

Project: Chalk Point - Swanson's Creek

Account Number: 08367

ENTRIX, Incorporated

10 Corporate Circle

Suite 100

New Castle DE 19720

SW310 SDG#: ATF51-05

| CAT No. | Analysis Name                  | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--------------------------------|------------|--------------------|------------------------------------|-------|-----------------|
| 08407   | STARS Petroleum Contaminants W |            |                    |                                    |       |                 |
| 08540   | Methyl t-Butyl Ether           | 1634-04-4  | N.D.               | 0.2                                | ug/l  | 1               |
| 08541   | Benzene                        | 71-43-2    | N.D.               | 0.2                                | ug/l  | 1               |
| 08543   | Toluene                        | 108-88-3   | N.D.               | 0.2                                | ug/l  | 1               |
| 08545   | Ethylbenzene                   | 100-41-4   | N.D.               | 0.2                                | ug/l  | 1               |
| 08547   | m,p-Xylene                     | 1330-20-7  | N.D.               | 0.4                                | ug/l  | 1               |
| 08550   | o-Xylene                       | 95-47-6    | N.D.               | 0.2                                | ug/l  | 1               |
| 08552   | Isopropylbenzene (Cumene)      | 98-82-8    | N.D.               | 0.2                                | ug/l  | 1               |
| 08553   | n-Propylbenzene                | 103-65-1   | N.D.               | 0.2                                | ug/l  | 1               |
| 08554   | 1,3,5-Trimethylbenzene         | 108-67-8   | N.D.               | 0.2                                | ug/l  | 1               |
| 08555   | tert-Butylbenzene              | 98-06-6    | N.D.               | 0.2                                | ug/l  | 1               |
| 08556   | 1,2,4-Trimethylbenzene         | 95-63-6    | N.D.               | 0.2                                | ug/l  | 1               |
| 08557   | sec-Butylbenzene               | 135-98-8   | N.D.               | 0.2                                | ug/l  | 1               |
| 08558   | p-Isopropyltoluene             | 99-87-6    | N.D.               | 0.2                                | ug/l  | 1               |
| 08559   | n-Butylbenzene                 | 104-51-8   | N.D.               | 0.2                                | ug/l  | 1               |
| 08560   | Naphthalene                    | 91-20-3    | N.D.               | 0.2                                | ug/l  | 1               |

### Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst        | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|----------------|-----------------|
| 08407   | STARS Petroleum Contaminants W | SW-846 8021B | 1      | 04/18/2000 08:48       | Todd T. Smythe | 1               |



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LL Sample No. WW 3361747

Collected: 04/08/2000 16:30 by KR

Account Number: 08367

Submitted: 04/14/2000 09:10

ENTRIX, Incorporated

Reported: 05/09/00 at 04:37 PM

10 Corporate Circle

Discard: 5/17/00

Suite 100

SW-4 (14,15) Water Sample

New Castle DE 19720

Project: Chalk Point - Swanson's Creek

SW414 SDG#: <sup>51</sup>ATF~~55~~-07

*atm 124 5-30-00*

| CAT No. | Analysis Name                  | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--------------------------------|------------|--------------------|------------------------------------|-------|-----------------|
| 08407   | STARS Petroleum Contaminants W |            |                    |                                    |       |                 |
| 08540   | Methyl t-Butyl Ether           | 1634-04-4  | 7.9                | 0.2                                | ug/l  | 1               |
| 08541   | Benzene                        | 71-43-2    | 2.5                | 0.2                                | ug/l  | 1               |
| 08543   | Toluene                        | 108-88-3   | 11.                | 0.2                                | ug/l  | 1               |
| 08545   | Ethylbenzene                   | 100-41-4   | 4.7                | 0.2                                | ug/l  | 1               |
| 08547   | m,p-Xylene                     | 1330-20-7  | 13.                | 0.4                                | ug/l  | 1               |
| 08550   | o-Xylene                       | 95-47-6    | 7.5                | 0.2                                | ug/l  | 1               |
| 08552   | Isopropylbenzene (Cumene)      | 98-82-8    | 1.3                | 0.2                                | ug/l  | 1               |
| 08553   | n-Propylbenzene                | 103-65-1   | 1.9                | 0.2                                | ug/l  | 1               |
| 08554   | 1,3,5-Trimethylbenzene         | 108-67-8   | 2.5                | 0.2                                | ug/l  | 1               |
| 08555   | tert-Butylbenzene              | 98-06-6    | N.D.               | 0.2                                | ug/l  | 1               |
| 08556   | 1,2,4-Trimethylbenzene         | 95-63-6    | 10.                | 0.2                                | ug/l  | 1               |
| 08557   | sec-Butylbenzene               | 135-98-8   | 0.8                | 0.2                                | ug/l  | 1               |
| 08558   | p-Isopropyltoluene             | 99-87-6    | 0.6                | 0.2                                | ug/l  | 1               |
| 08559   | n-Butylbenzene                 | 104-51-8   | 3.2                | 0.2                                | ug/l  | 1               |
| 08560   | Naphthalene                    | 91-20-3    | 26.                | 0.2                                | ug/l  | 1               |

### Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Analysis Date and Time | Analyst        | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------------|----------------|-----------------|
| 08407   | STARS Petroleum Contaminants W | SW-846 8021B | 1      | 04/18/2000 10:08       | Todd T. Smythe | 1               |



LL Sample No. WW 3361748

Collected: 04/08/2000 16:15 by KR

Submitted: 04/14/2000 09:10  
 Reported: 05/09/00 at 04:37 PM  
 Discard: 5/17/00  
 SW-7 (18,19) Water Sample

Account Number: \*08367

ENTRIX, Incorporated  
 10 Corporate Circle  
 Suite 100  
 New Castle DE 19720

Project: Chalk Point - Swanson's Creek

SW718 SDG#: ATF51-08

| CAT No. | Analysis Name                  | CAS Number | As Received Result | As Received Method | Detection Limit | Units | Dilution Factor |
|---------|--------------------------------|------------|--------------------|--------------------|-----------------|-------|-----------------|
| 08407   | STARS Petroleum Contaminants W |            |                    |                    |                 |       |                 |
| 08540   | Methyl t-Butyl Ether           | 1634-04-4  | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08541   | Benzene                        | 71-43-2    | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08543   | Toluene                        | 108-88-3   | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08545   | Ethylbenzene                   | 100-41-4   | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08547   | m,p-Xylene                     | 1330-20-7  | N.D.               | 0.4                |                 | ug/l  | 1               |
| 08550   | o-Xylene                       | 95-47-6    | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08552   | Isopropylbenzene (Cumene)      | 98-82-8    | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08553   | n-Propylbenzene                | 103-65-1   | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08554   | 1,3,5-Trimethylbenzene         | 108-67-8   | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08555   | tert-Butylbenzene              | 98-06-6    | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08556   | 1,2,4-Trimethylbenzene         | 95-63-6    | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08557   | sec-Butylbenzene               | 135-98-8   | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08558   | p-Isopropyltoluene             | 99-87-6    | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08559   | n-Butylbenzene                 | 104-51-8   | N.D.               | 0.2                |                 | ug/l  | 1               |
| 08560   | Naphthalene                    | 91-20-3    | 0.3 J              | 0.2                |                 | ug/l  | 1               |

### Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Trial# | Date and Time    | Analyst        | Dilution Factor |
|---------|--------------------------------|--------------|--------|------------------|----------------|-----------------|
| 08407   | STARS Petroleum Contaminants W | SW-846 8021B | 1      | 04/18/2000 09:28 | Todd T. Smythe | 1               |



LL Sample No. WW 3361750

Collected: 04/08/2000 17:00 by KR

Account Number: 08367

Submitted: 04/14/2000 09:10  
 Reported: 05/09/00 at 04:37 PM  
 Discard: 5/17/00  
 SW-8 (22,23) Water Sample

ENTRIX, Incorporated  
 10 Corporate Circle  
 Suite 100  
 New Castle DE 19720

Project: Chalk Point - Swanson's Creek

SW822 SDG#: ATF51-10

| CAT No. | Analysis Name                  | CAS Number | As Received Result | As Received Method |     | Units | Dilution Factor |
|---------|--------------------------------|------------|--------------------|--------------------|-----|-------|-----------------|
|         |                                |            |                    | Detection Limit    |     |       |                 |
| 08407   | STARS Petroleum Contaminants W |            |                    |                    |     |       |                 |
| 08540   | Methyl t-Butyl Ether           | 1634-04-4  | 2.3                |                    | 0.2 | ug/l  | 1               |
| 08541   | Benzene                        | 71-43-2    | 0.5                | J                  | 0.2 | ug/l  | 1               |
| 08543   | Toluene                        | 108-88-3   | 2.0                |                    | 0.2 | ug/l  | 1               |
| 08545   | Ethylbenzene                   | 100-41-4   | 0.8                | J                  | 0.2 | ug/l  | 1               |
| 08547   | m,p-Xylene                     | 1330-20-7  | 2.1                |                    | 0.4 | ug/l  | 1               |
| 08550   | o-Xylene                       | 95-47-6    | 1.1                |                    | 0.2 | ug/l  | 1               |
| 08552   | Isopropylbenzene (Cumene)      | 98-82-8    | 0.2                | J                  | 0.2 | ug/l  | 1               |
| 08553   | n-Propylbenzene                | 103-65-1   | 0.3                | J                  | 0.2 | ug/l  | 1               |
| 08554   | 1,3,5-Trimethylbenzene         | 108-67-8   | 0.3                | J                  | 0.2 | ug/l  | 1               |
| 08555   | tert-Butylbenzene              | 98-06-6    | N.D.               |                    | 0.2 | ug/l  | 1               |
| 08556   | 1,2,4-Trimethylbenzene         | 95-63-6    | 1.3                |                    | 0.2 | ug/l  | 1               |
| 08557   | sec-Butylbenzene               | 135-98-8   | N.D.               |                    | 0.2 | ug/l  | 1               |
| 08558   | p-Isopropyltoluene             | 99-87-6    | N.D.               |                    | 0.2 | ug/l  | 1               |
| 08559   | n-Butylbenzene                 | 104-51-8   | 0.4                | J                  | 0.2 | ug/l  | 1               |
| 08560   | Naphthalene                    | 91-20-3    | 2.8                |                    | 0.2 | ug/l  | 1               |

### Laboratory Chronicle

| CAT No. | Analysis Name                  | Method       | Analysis |                  | Analyst        | Dilution Factor |
|---------|--------------------------------|--------------|----------|------------------|----------------|-----------------|
|         |                                |              | Trial#   | Date and Time    |                |                 |
| 08407   | STARS Petroleum Contaminants W | SW-846 8021B | 1        | 04/18/2000 07:28 | Todd T. Smythe | 1               |