



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Region 2 Laboratory  
2890 Woodbridge Avenue  
Edison , New Jersey 08837  
732-906-6886 Phone  
732-906-6165 Fax**

December 09, 2013

Jennifer Oxford  
CDM Smith  
110 Fieldcrest Avenue, 6th Floor  
Edison, NJ 08837

RE: Old Roosevelt Field - 1310029

Enclosed are the results of analyses for samples received by the laboratory on 10/31/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1310029 and contact John Birri by phone at 732-906-6886, or via Email at [birri.john@epa.gov](mailto:birri.john@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "John R. Bourbon". The signature is written in a cursive style.

John R. Bourbon  
Chief, DESA/LB



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region 2 Laboratory**

**Project: Old Roosevelt Field - 1310029**

**Project Number: 1310029**

**Project Narrative:**

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

**Condition Comments**

None

**Comment(s):**

None

**Data Qualifier(s):**

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

**Reporting Limit(s):**

The Laboratory was able to achieve the appropriate limits for each analyte requested, except for methyl acetate. The reporting limit for methyl acetate was raised to 1.0 ug/L since the first point of the calibration curve was dropped.



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**Project:Old Roosevelt Field - 1310029**

**Project Number: 1310029**

**SUMMARY REPORT FOR SAMPLES**

| <b>Field ID</b> | <b>Laboratory ID</b> | <b>Matrix</b> | <b>Date Sampled</b> | <b>Date Received</b> |
|-----------------|----------------------|---------------|---------------------|----------------------|
| CI-131030       | 1310029-01           | Aqueous       | 10/30/2013 09:00    | 10/31/2013 15:00     |
| EFF-131030      | 1310029-02           | Aqueous       | 10/30/2013 09:05    | 10/31/2013 15:00     |
| TB-131030       | 1310029-03           | Aqueous       | 10/30/2013 08:00    | 10/31/2013 15:00     |



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
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**Project: Old Roosevelt Field - 1310029**

**Project Number: 1310029**

**SUMMARY REPORT FOR METHODS**

| <b>Analysis</b>    | <b>Method</b>                | <b>Certification</b> | <b>Matrix</b> |
|--------------------|------------------------------|----------------------|---------------|
| Oil & Grease       | EPA 1664A / SOP C-126 Rev1.2 | NELAP                | Aqueous       |
| VOA 524.2 Trace/SF | EPA 524.2 / SOP DW-1 Rev2.3  | NELAP                | Aqueous       |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 2 Laboratory

Project: Old Roosevelt Field - 1310029

Project Number: 1310029

| Analyte | Result | Qualifier | Reporting Limit | Units |
|---------|--------|-----------|-----------------|-------|
|---------|--------|-----------|-----------------|-------|

Field ID: CI-131030

Sample ID: 1310029-01

VOA-TRACE GCMS

|                                       |      |   |      |      |
|---------------------------------------|------|---|------|------|
| Dichlorodifluoromethane               | 22   | K | 0.50 | ug/L |
| Chloromethane                         | ---  | U | 0.50 | ug/L |
| Vinyl Chloride                        | ---  | U | 0.50 | ug/L |
| Bromomethane                          | ---  | U | 0.50 | ug/L |
| Chloroethane                          | ---  | U | 0.50 | ug/L |
| Trichlorofluoromethane                | 16   |   | 0.50 | ug/L |
| 1,1-Dichloroethene                    | 1.8  |   | 0.50 | ug/L |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 0.53 |   | 0.50 | ug/L |
| Carbon Disulfide                      | ---  | U | 0.50 | ug/L |
| Acetone                               | ---  | U | 5.0  | ug/L |
| Methyl Acetate                        | ---  | U | 1.0  | ug/L |
| Methylene Chloride                    | ---  | U | 0.50 | ug/L |
| trans-1,2-Dichloroethene              | 0.98 |   | 0.50 | ug/L |
| Methyl tert-Butyl Ether               | 4.3  |   | 0.50 | ug/L |
| 1,1-Dichloroethane                    | 1.0  |   | 0.50 | ug/L |
| cis-1,2-Dichloroethene                | 6.6  |   | 0.50 | ug/L |
| 2-Butanone                            | ---  | U | 5.0  | ug/L |
| Bromochloromethane                    | ---  | U | 0.50 | ug/L |
| Chloroform                            | ---  | U | 0.50 | ug/L |
| 1,1,1-Trichloroethane                 | ---  | U | 0.50 | ug/L |
| Cyclohexane                           | ---  | U | 0.50 | ug/L |
| Carbon Tetrachloride                  | ---  | U | 0.50 | ug/L |
| Benzene                               | ---  | U | 0.50 | ug/L |



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Project Number: 1310029

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|---------|--------|-----------|-----------------|-------|

Field ID: CI-131030

Sample ID: 1310029-01

VOA-TRACE GCMS

|                           |     |   |      |      |
|---------------------------|-----|---|------|------|
| 1,2-Dichloroethane        | --- | U | 0.50 | ug/L |
| Trichloroethene           | 87  |   | 5.0  | ug/L |
| 1,2-Dichloropropane       | --- | U | 0.50 | ug/L |
| Bromodichloromethane      | --- | U | 0.50 | ug/L |
| cis-1,3-Dichloropropene   | --- | U | 0.50 | ug/L |
| 4-Methyl-2-Pentanone      | --- | U | 5.0  | ug/L |
| Toluene                   | --- | U | 0.50 | ug/L |
| trans-1,3-Dichloropropene | --- | U | 0.50 | ug/L |
| 1,1,2-Trichloroethane     | --- | U | 0.50 | ug/L |
| Tetrachloroethene         | 68  |   | 5.0  | ug/L |
| Methylcyclohexane         | --- | U | 0.50 | ug/L |
| Dibromochloromethane      | --- | U | 0.50 | ug/L |
| 1,2-Dibromoethane         | --- | U | 0.50 | ug/L |
| 2-Hexanone                | --- | U | 5.0  | ug/L |
| Chlorobenzene             | --- | U | 0.50 | ug/L |
| Ethylbenzene              | --- | U | 0.50 | ug/L |
| m/p-Xylene                | --- | U | 0.50 | ug/L |
| o-Xylene                  | --- | U | 0.50 | ug/L |
| Styrene                   | --- | U | 0.50 | ug/L |
| Bromoform                 | --- | U | 0.50 | ug/L |
| Isopropylbenzene          | --- | U | 0.50 | ug/L |
| 1,1,2,2-Tetrachloroethane | --- | U | 0.50 | ug/L |



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|---------|--------|-----------|-----------------|-------|

Field ID: CI-131030

Sample ID: 1310029-01

VOA-TRACE GCMS

|                             |     |     |      |      |
|-----------------------------|-----|-----|------|------|
| 1,3-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,4-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,2-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,2-Dibromo-3-Chloropropane | --- | U L | 0.50 | ug/L |
| 1,2,4-Trichlorobenzene      | --- | U   | 0.50 | ug/L |
| 1,2,3-Trichlorobenzene      | --- | U   | 0.50 | ug/L |
| Difluorochloromethane       | 3.0 | NJ  |      | ug/L |

Field ID: EFF-131030

Sample ID: 1310029-02

VOA-TRACE GCMS

|                                       |     |   |      |      |
|---------------------------------------|-----|---|------|------|
| Dichlorodifluoromethane               | --- | U | 0.50 | ug/L |
| Chloromethane                         | --- | U | 0.50 | ug/L |
| Vinyl Chloride                        | --- | U | 0.50 | ug/L |
| Bromomethane                          | --- | U | 0.50 | ug/L |
| Chloroethane                          | --- | U | 0.50 | ug/L |
| Trichlorofluoromethane                | --- | U | 0.50 | ug/L |
| 1,1-Dichloroethene                    | --- | U | 0.50 | ug/L |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | --- | U | 0.50 | ug/L |
| Carbon Disulfide                      | --- | U | 0.50 | ug/L |
| Acetone                               | --- | U | 5.0  | ug/L |
| Methyl Acetate                        | --- | U | 1.0  | ug/L |
| Methylene Chloride                    | --- | U | 0.50 | ug/L |
| trans-1,2-Dichloroethene              | --- | U | 0.50 | ug/L |



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Project Number: 1310029

| Analyte | Result | Qualifier | Reporting Limit | Units |
|---------|--------|-----------|-----------------|-------|
|---------|--------|-----------|-----------------|-------|

Field ID: EFF-131030

Sample ID: 1310029-02

VOA-TRACE GCMS

|                           |      |   |      |      |
|---------------------------|------|---|------|------|
| Methyl tert-Butyl Ether   | 0.74 |   | 0.50 | ug/L |
| 1,1-Dichloroethane        | ---  | U | 0.50 | ug/L |
| cis-1,2-Dichloroethene    | ---  | U | 0.50 | ug/L |
| 2-Butanone                | ---  | U | 5.0  | ug/L |
| Bromochloromethane        | ---  | U | 0.50 | ug/L |
| Chloroform                | ---  | U | 0.50 | ug/L |
| 1,1,1-Trichloroethane     | ---  | U | 0.50 | ug/L |
| Cyclohexane               | ---  | U | 0.50 | ug/L |
| Carbon Tetrachloride      | ---  | U | 0.50 | ug/L |
| Benzene                   | ---  | U | 0.50 | ug/L |
| 1,2-Dichloroethane        | ---  | U | 0.50 | ug/L |
| Trichloroethene           | ---  | U | 0.50 | ug/L |
| 1,2-Dichloropropane       | ---  | U | 0.50 | ug/L |
| Bromodichloromethane      | ---  | U | 0.50 | ug/L |
| cis-1,3-Dichloropropene   | ---  | U | 0.50 | ug/L |
| 4-Methyl-2-Pentanone      | ---  | U | 5.0  | ug/L |
| Toluene                   | ---  | U | 0.50 | ug/L |
| trans-1,3-Dichloropropene | ---  | U | 0.50 | ug/L |
| 1,1,2-Trichloroethane     | ---  | U | 0.50 | ug/L |
| Tetrachloroethene         | ---  | U | 0.50 | ug/L |
| Methylcyclohexane         | ---  | U | 0.50 | ug/L |
| Dibromochloromethane      | ---  | U | 0.50 | ug/L |





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|---------|--------|-----------|-----------------|-------|

Field ID: EFF-131030

Sample ID: 1310029-02

VOA-TRACE GCMS

|                             |     |     |      |      |
|-----------------------------|-----|-----|------|------|
| 1,2-Dibromoethane           | --- | U   | 0.50 | ug/L |
| 2-Hexanone                  | --- | U   | 5.0  | ug/L |
| Chlorobenzene               | --- | U   | 0.50 | ug/L |
| Ethylbenzene                | --- | U   | 0.50 | ug/L |
| m/p-Xylene                  | --- | U   | 0.50 | ug/L |
| o-Xylene                    | --- | U   | 0.50 | ug/L |
| Styrene                     | --- | U   | 0.50 | ug/L |
| Bromoform                   | --- | U   | 0.50 | ug/L |
| Isopropylbenzene            | --- | U   | 0.50 | ug/L |
| 1,1,2,2-Tetrachloroethane   | --- | U   | 0.50 | ug/L |
| 1,3-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,4-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,2-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,2-Dibromo-3-Chloropropane | --- | U L | 0.50 | ug/L |
| 1,2,4-Trichlorobenzene      | --- | U   | 0.50 | ug/L |
| 1,2,3-Trichlorobenzene      | --- | U   | 0.50 | ug/L |

Sanitary

|              |     |   |     |      |
|--------------|-----|---|-----|------|
| Oil & Grease | --- | U | 5.0 | mg/L |
|--------------|-----|---|-----|------|

Field ID: TB-131030

Sample ID: 1310029-03

VOA-TRACE GCMS

|                         |     |   |      |      |
|-------------------------|-----|---|------|------|
| Dichlorodifluoromethane | --- | U | 0.50 | ug/L |
|-------------------------|-----|---|------|------|



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|---------|--------|-----------|-----------------|-------|

Field ID: TB-131030

Sample ID: 1310029-03

VOA-TRACE GCMS

|                                       |     |   |      |      |
|---------------------------------------|-----|---|------|------|
| Chloromethane                         | --- | U | 0.50 | ug/L |
| Vinyl Chloride                        | --- | U | 0.50 | ug/L |
| Bromomethane                          | --- | U | 0.50 | ug/L |
| Chloroethane                          | --- | U | 0.50 | ug/L |
| Trichlorofluoromethane                | --- | U | 0.50 | ug/L |
| 1,1-Dichloroethene                    | --- | U | 0.50 | ug/L |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | --- | U | 0.50 | ug/L |
| Carbon Disulfide                      | --- | U | 0.50 | ug/L |
| Acetone                               | --- | U | 5.0  | ug/L |
| Methyl Acetate                        | --- | U | 1.0  | ug/L |
| Methylene Chloride                    | --- | U | 0.50 | ug/L |
| trans-1,2-Dichloroethene              | --- | U | 0.50 | ug/L |
| Methyl tert-Butyl Ether               | --- | U | 0.50 | ug/L |
| 1,1-Dichloroethane                    | --- | U | 0.50 | ug/L |
| cis-1,2-Dichloroethene                | --- | U | 0.50 | ug/L |
| 2-Butanone                            | --- | U | 5.0  | ug/L |
| Bromochloromethane                    | --- | U | 0.50 | ug/L |
| Chloroform                            | --- | U | 0.50 | ug/L |
| 1,1,1-Trichloroethane                 | --- | U | 0.50 | ug/L |
| Cyclohexane                           | --- | U | 0.50 | ug/L |
| Carbon Tetrachloride                  | --- | U | 0.50 | ug/L |
| Benzene                               | --- | U | 0.50 | ug/L |



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|---------|--------|-----------|-----------------|-------|

Field ID: TB-131030

Sample ID: 1310029-03

VOA-TRACE GCMS

|                           |     |   |      |      |
|---------------------------|-----|---|------|------|
| 1,2-Dichloroethane        | --- | U | 0.50 | ug/L |
| Trichloroethene           | --- | U | 0.50 | ug/L |
| 1,2-Dichloropropane       | --- | U | 0.50 | ug/L |
| Bromodichloromethane      | --- | U | 0.50 | ug/L |
| cis-1,3-Dichloropropene   | --- | U | 0.50 | ug/L |
| 4-Methyl-2-Pentanone      | --- | U | 5.0  | ug/L |
| Toluene                   | --- | U | 0.50 | ug/L |
| trans-1,3-Dichloropropene | --- | U | 0.50 | ug/L |
| 1,1,2-Trichloroethane     | --- | U | 0.50 | ug/L |
| Tetrachloroethene         | --- | U | 0.50 | ug/L |
| Methylcyclohexane         | --- | U | 0.50 | ug/L |
| Dibromochloromethane      | --- | U | 0.50 | ug/L |
| 1,2-Dibromoethane         | --- | U | 0.50 | ug/L |
| 2-Hexanone                | --- | U | 5.0  | ug/L |
| Chlorobenzene             | --- | U | 0.50 | ug/L |
| Ethylbenzene              | --- | U | 0.50 | ug/L |
| m/p-Xylene                | --- | U | 0.50 | ug/L |
| o-Xylene                  | --- | U | 0.50 | ug/L |
| Styrene                   | --- | U | 0.50 | ug/L |
| Bromoform                 | --- | U | 0.50 | ug/L |
| Isopropylbenzene          | --- | U | 0.50 | ug/L |
| 1,1,2,2-Tetrachloroethane | --- | U | 0.50 | ug/L |



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|---------|--------|-----------|-----------------|-------|

Field ID: TB-131030

Sample ID: 1310029-03

VOA-TRACE GCMS

|                             |     |     |      |      |
|-----------------------------|-----|-----|------|------|
| 1,3-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,4-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,2-Dichlorobenzene         | --- | U   | 0.50 | ug/L |
| 1,2-Dibromo-3-Chloropropane | --- | U L | 0.50 | ug/L |
| 1,2,4-Trichlorobenzene      | --- | U   | 0.50 | ug/L |
| 1,2,3-Trichlorobenzene      | --- | U   | 0.50 | ug/L |