

## Summary Report

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Report Date: August 8, 2016

Work Order: 16080416



Project Location: Lea County, NM  
Project Name: EPNG Line 3031 Spike Test  
Project Number: AFE 403828

| Sample | Description                  | Matrix | Date Taken | Time Taken | Date Received |
|--------|------------------------------|--------|------------|------------|---------------|
| 425806 | Rupture #4 Contaminated Soil | soil   | 2016-08-02 | 10:45      | 2016-08-04    |
| 425807 | Rupture #4 Background Soil   | soil   | 2016-08-02 | 10:45      | 2016-08-04    |

| Sample - Field Code                   | TPH DRO<br>DRO<br>(mg/Kg) | TPH GRO<br>GRO<br>(mg/Kg) |
|---------------------------------------|---------------------------|---------------------------|
| 425806 - Rupture #4 Contaminated Soil | <50.0                     | <4.00                     |
| 425807 - Rupture #4 Background Soil   | <50.0                     | <4.00                     |

### Sample: 425806 - Rupture #4 Contaminated Soil

| Param                           | Flag | Result | Units | RL  |
|---------------------------------|------|--------|-------|-----|
| Chloride                        |      | <250   | mg/Kg | 50  |
| Bromochloromethane              |      | <20.0  | µg/Kg | 20  |
| Dichlorodifluoromethane         |      | <20.0  | µg/Kg | 20  |
| Chloromethane (methyl chloride) |      | <20.0  | µg/Kg | 20  |
| Vinyl Chloride                  |      | <20.0  | µg/Kg | 20  |
| Bromomethane (methyl bromide)   |      | <100   | µg/Kg | 100 |
| Chloroethane                    |      | <20.0  | µg/Kg | 20  |
| Trichlorofluoromethane          |      | <20.0  | µg/Kg | 20  |
| Acetone                         |      | <200   | µg/Kg | 200 |
| Iodomethane (methyl iodide)     |      | <100   | µg/Kg | 100 |
| Carbon Disulfide                |      | <20.0  | µg/Kg | 20  |
| Acrylonitrile                   |      | <20.0  | µg/Kg | 20  |
| 2-Butanone (MEK)                |      | <100   | µg/Kg | 100 |
| 4-Methyl-2-pentanone (MIBK)     | Qr   | <100   | µg/Kg | 100 |
| 2-Hexanone                      |      | <100   | µg/Kg | 100 |

*continued ...*

*sample 425806 continued ...*

| Param                              | Flag           | Result | Units | RL  |
|------------------------------------|----------------|--------|-------|-----|
| trans 1,4-Dichloro-2-butene        | Q <sub>c</sub> | <200   | µg/Kg | 200 |
| 1,1-Dichloroethene                 |                | <20.0  | µg/Kg | 20  |
| Methylene chloride                 | B              | <100   | µg/Kg | 100 |
| MTBE                               |                | <20.0  | µg/Kg | 20  |
| trans-1,2-Dichloroethene           |                | <20.0  | µg/Kg | 20  |
| 1,1-Dichloroethane                 |                | <20.0  | µg/Kg | 20  |
| cis-1,2-Dichloroethene             |                | <20.0  | µg/Kg | 20  |
| 2,2-Dichloropropane                |                | <20.0  | µg/Kg | 20  |
| 1,2-Dichloroethane (EDC)           |                | <20.0  | µg/Kg | 20  |
| Chloroform                         |                | <20.0  | µg/Kg | 20  |
| 1,1,1-Trichloroethane              |                | <20.0  | µg/Kg | 20  |
| 1,1-Dichloropropene                |                | <20.0  | µg/Kg | 20  |
| Benzene                            |                | <20.0  | µg/Kg | 20  |
| Carbon Tetrachloride               |                | <20.0  | µg/Kg | 20  |
| 1,2-Dichloropropane                |                | <20.0  | µg/Kg | 20  |
| Trichloroethene (TCE)              |                | <20.0  | µg/Kg | 20  |
| Dibromomethane (methylene bromide) |                | <20.0  | µg/Kg | 20  |
| Bromodichloromethane               |                | <20.0  | µg/Kg | 20  |
| 2-Chloroethyl vinyl ether          |                | <20.0  | µg/Kg | 20  |
| cis-1,3-Dichloropropene            |                | <20.0  | µg/Kg | 20  |
| trans-1,3-Dichloropropene          |                | <20.0  | µg/Kg | 20  |
| Toluene                            |                | <20.0  | µg/Kg | 20  |
| 1,1,2-Trichloroethane              |                | <20.0  | µg/Kg | 20  |
| 1,3-Dichloropropane                |                | <20.0  | µg/Kg | 20  |
| Dibromochloromethane               |                | <20.0  | µg/Kg | 20  |
| 1,2-Dibromoethane (EDB)            |                | <20.0  | µg/Kg | 20  |
| Tetrachloroethene (PCE)            |                | <20.0  | µg/Kg | 20  |
| Chlorobenzene                      |                | <20.0  | µg/Kg | 20  |
| 1,1,1,2-Tetrachloroethane          |                | <20.0  | µg/Kg | 20  |
| Ethylbenzene                       |                | <20.0  | µg/Kg | 20  |
| m,p-Xylene                         |                | <20.0  | µg/Kg | 20  |
| Bromoform                          |                | <20.0  | µg/Kg | 20  |
| Styrene                            |                | <20.0  | µg/Kg | 20  |
| o-Xylene                           |                | <20.0  | µg/Kg | 20  |
| 1,1,2,2-Tetrachloroethane          |                | <20.0  | µg/Kg | 20  |
| 2-Chlorotoluene                    |                | <20.0  | µg/Kg | 20  |
| 1,2,3-Trichloropropane             |                | <20.0  | µg/Kg | 20  |
| Isopropylbenzene                   |                | <20.0  | µg/Kg | 20  |
| Bromobenzene                       |                | <20.0  | µg/Kg | 20  |
| n-Propylbenzene                    |                | <20.0  | µg/Kg | 20  |
| 1,3,5-Trimethylbenzene             |                | <20.0  | µg/Kg | 20  |
| tert-Butylbenzene                  |                | <20.0  | µg/Kg | 20  |
| 1,2,4-Trimethylbenzene             |                | <20.0  | µg/Kg | 20  |
| 1,4-Dichlorobenzene (para)         |                | <20.0  | µg/Kg | 20  |
| sec-Butylbenzene                   |                | <20.0  | µg/Kg | 20  |
| 1,3-Dichlorobenzene (meta)         |                | <20.0  | µg/Kg | 20  |
| p-Isopropyltoluene                 |                | <20.0  | µg/Kg | 20  |

*continued ...*

*sample 425806 continued ...*

| Param                       | Flag           | Result | Units | RL  |
|-----------------------------|----------------|--------|-------|-----|
| 4-Chlorotoluene             |                | <20.0  | µg/Kg | 20  |
| 1,2-Dichlorobenzene (ortho) |                | <20.0  | µg/Kg | 20  |
| n-Butylbenzene              |                | <20.0  | µg/Kg | 20  |
| 1,2-Dibromo-3-chloropropane |                | <100   | µg/Kg | 100 |
| 1,2,3-Trichlorobenzene      | Q <sub>r</sub> | <100   | µg/Kg | 100 |
| 1,2,4-Trichlorobenzene      | Q <sub>r</sub> | <100   | µg/Kg | 100 |
| Naphthalene                 | Q <sub>r</sub> | <100   | µg/Kg | 100 |
| Hexachlorobutadiene         |                | <100   | µg/Kg | 100 |

**Sample: 425807 - Rupture #4 Background Soil**

| Param                              | Flag              | Result | Units | RL  |
|------------------------------------|-------------------|--------|-------|-----|
| Chloride                           |                   | <250   | mg/Kg | 50  |
| Bromochloromethane                 | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Dichlorodifluoromethane            |                   | <20.0  | µg/Kg | 20  |
| Chloromethane (methyl chloride)    |                   | <20.0  | µg/Kg | 20  |
| Vinyl Chloride                     |                   | <20.0  | µg/Kg | 20  |
| Bromomethane (methyl bromide)      |                   | <100   | µg/Kg | 100 |
| Chloroethane                       | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Trichlorofluoromethane             |                   | <20.0  | µg/Kg | 20  |
| Acetone                            |                   | <200   | µg/Kg | 200 |
| Iodomethane (methyl iodide)        | Q <sub>s</sub>    | <100   | µg/Kg | 100 |
| Carbon Disulfide                   | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Acrylonitrile                      |                   | <20.0  | µg/Kg | 20  |
| 2-Butanone (MEK)                   |                   | <100   | µg/Kg | 100 |
| 4-Methyl-2-pentanone (MIBK)        | Q <sub>r</sub>    | <100   | µg/Kg | 100 |
| 2-Hexanone                         |                   | <100   | µg/Kg | 100 |
| trans 1,4-Dichloro-2-butene        | Q <sub>c</sub>    | <200   | µg/Kg | 200 |
| 1,1-Dichloroethene                 | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Methylene chloride                 | B, Q <sub>s</sub> | <100   | µg/Kg | 100 |
| MTBE                               |                   | <20.0  | µg/Kg | 20  |
| trans-1,2-Dichloroethene           | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| 1,1-Dichloroethane                 | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| cis-1,2-Dichloroethene             | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| 2,2-Dichloropropane                |                   | <20.0  | µg/Kg | 20  |
| 1,2-Dichloroethane (EDC)           |                   | <20.0  | µg/Kg | 20  |
| Chloroform                         | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| 1,1,1-Trichloroethane              |                   | <20.0  | µg/Kg | 20  |
| 1,1-Dichloropropene                | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Benzene                            | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Carbon Tetrachloride               |                   | <20.0  | µg/Kg | 20  |
| 1,2-Dichloropropane                | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Trichloroethene (TCE)              | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |
| Dibromomethane (methylene bromide) |                   | <20.0  | µg/Kg | 20  |
| Bromodichloromethane               |                   | <20.0  | µg/Kg | 20  |
| 2-Chloroethyl vinyl ether          | Q <sub>s</sub>    | <20.0  | µg/Kg | 20  |

*continued ...*

*sample 425807 continued ...*

| Param                       | Flag   | Result | Units | RL  |
|-----------------------------|--------|--------|-------|-----|
| cis-1,3-Dichloropropene     |        | <20.0  | µg/Kg | 20  |
| trans-1,3-Dichloropropene   |        | <20.0  | µg/Kg | 20  |
| Toluene                     | Qs     | <20.0  | µg/Kg | 20  |
| 1,1,2-Trichloroethane       |        | <20.0  | µg/Kg | 20  |
| 1,3-Dichloropropane         |        | <20.0  | µg/Kg | 20  |
| Dibromochloromethane        |        | <20.0  | µg/Kg | 20  |
| 1,2-Dibromoethane (EDB)     |        | <20.0  | µg/Kg | 20  |
| Tetrachloroethene (PCE)     | Qs     | <20.0  | µg/Kg | 20  |
| Chlorobenzene               | Qs     | <20.0  | µg/Kg | 20  |
| 1,1,1,2-Tetrachloroethane   |        | <20.0  | µg/Kg | 20  |
| Ethylbenzene                | Qs     | <20.0  | µg/Kg | 20  |
| m,p-Xylene                  | Qs     | <20.0  | µg/Kg | 20  |
| Bromoform                   |        | <20.0  | µg/Kg | 20  |
| Styrene                     | Qs     | <20.0  | µg/Kg | 20  |
| o-Xylene                    | Qs     | <20.0  | µg/Kg | 20  |
| 1,1,2,2-Tetrachloroethane   |        | <20.0  | µg/Kg | 20  |
| 2-Chlorotoluene             | Qs     | <20.0  | µg/Kg | 20  |
| 1,2,3-Trichloropropane      |        | <20.0  | µg/Kg | 20  |
| Isopropylbenzene            | Qs     | <20.0  | µg/Kg | 20  |
| Bromobenzene                | Qs     | <20.0  | µg/Kg | 20  |
| n-Propylbenzene             | Qs     | <20.0  | µg/Kg | 20  |
| 1,3,5-Trimethylbenzene      | Qs     | <20.0  | µg/Kg | 20  |
| tert-Butylbenzene           | Qs     | <20.0  | µg/Kg | 20  |
| 1,2,4-Trimethylbenzene      | Qs     | <20.0  | µg/Kg | 20  |
| 1,4-Dichlorobenzene (para)  | Qs     | <20.0  | µg/Kg | 20  |
| sec-Butylbenzene            | Qs     | <20.0  | µg/Kg | 20  |
| 1,3-Dichlorobenzene (meta)  | Qs     | <20.0  | µg/Kg | 20  |
| p-Isopropyltoluene          | Qs     | <20.0  | µg/Kg | 20  |
| 4-Chlorotoluene             | Qs     | <20.0  | µg/Kg | 20  |
| 1,2-Dichlorobenzene (ortho) | Qs     | <20.0  | µg/Kg | 20  |
| n-Butylbenzene              | Qs     | <20.0  | µg/Kg | 20  |
| 1,2-Dibromo-3-chloropropane |        | <100   | µg/Kg | 100 |
| 1,2,3-Trichlorobenzene      | Qr, Qs | <100   | µg/Kg | 100 |
| 1,2,4-Trichlorobenzene      | Qr, Qs | <100   | µg/Kg | 100 |
| Naphthalene                 | Qr     | <100   | µg/Kg | 100 |
| Hexachlorobutadiene         | Qs     | <100   | µg/Kg | 100 |