# **3R-1011**

# **Release Report/ General Correspondence**

# **Enterprise SJ**

# **Trunk MD 16 Inch** 2016

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

#### **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Name of Company: Enterprise Field Services LLC Contact: Thomas Long Telephone No. 505-599-2286 Address: 614 Reilly Ave, Farmington, NM 87401 Facility Name: Trunk MD 16 Inch Facility Type: Natural Gas Pipeline Surface Owner: BLM Mineral Owner: BLM Serial Number: LOCATION OF RELEASE Unit Letter Section Township Range Feet from North South Feet from East West County 29N 11W the 1185 Line the 1361 San Juan M 1 Line Latitude 36.750534 Longitude -107.947310 NATURE OF RELEASE Type of Release: Hydro Static Test Water Volume of Release Estimated Volume Recovered: None 1,113 barrels of potable water Source of Release: Ruptured Pipeline Date and Hour of Occurrence: Date and Hour of Discovery: 6/16/2016 @ 6:30 p.m. 6/16/2016 @ 6:30 p.m. Was Immediate Notice Given? If YES, To Whom? Courtesy Notification - Vanessa Fields, NMOCD: ⊠ Yes □ No □ Not Katherina Diemer Date and Time June 16, 2016 @ 8:55 p.m. CONS. DIV DIST. 3 If YES, Volume Required By Whom? Thomas Long NOV 28 2016 Was a Watercourse Reached? X Yes I No If a Watercourse was Impacted, Describe Fully.\* Approximately 1,113 barrels of potable water was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south for approximately 0.5 miles. Describe Cause of Problem and Remedial Action: At approximately 6:30 p.m., on June 16, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 1,113 barrels of potable water was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south for approximately 0.5 miles. Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on June 17, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final." C-141. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Printed Name: Jon E. Fields Approved by Environmental Specialist Title: Director, Field Environmental Approval Date: 010010 **Expiration Date:** E-mail Address:jefields@eprod.com Conditions of Approval: Attached 10 10/201L NVF161673224 Phone: (713)381-6684 Date:

**Oil Conservation Division** 

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 S. St. Francis Dr., Santa Fe, NM 87505  | 1220 Sout<br>Santa F   | th St. Fran<br>Fe. NM 87  | cis Dr.<br>505  |  |   |  |   |  |   |
|--|--|---|---|--|---|--|---|--|---|
| Release No   | otificatio   | on and C  | orrect  | ive A  | Actio   | on   |   |  |   |
|  | 0  | PERATO  | 2   |  |   | Initial I  | Report  |  | Final Repor   |
| Name of Company: Enterprise Field Services   | LLC  | Contact: T  | nomas Lo  | ong  |   | indian   | Roport  |  | r mai r topol   |
| Address: 614 Reilly Ave, Farmington, NM 8740   | )1   | Telephone   | No. 505-  | -599-22  | 286   |  |   |  |   |
| Facility Name: Trunk MD 16 Inch  |  | Facility Typ  | e: Natur  | al Gas   | Pipe  | line   |   |  |   |
| Surface Owner: BLM   | ineral Owne  | r:BLM   |   |  |   | Serial I   | Number:   |  |   |
|  | LOCATIO  | N OF REI  | EASE  |  |   |  |   |  |   |
| Unit Letter<br>MSection<br>1Township<br>29NRange<br>11WFeet<br>the 1   | from No<br>126 Lin   | rth South   | Feet from<br>the 684  | m  | East<br>Line  | Vest   | County<br>San Juar  | ı  |   |
| Latitud  | le_ <u>36.74777</u>  | <u>0</u> Longitud   | e_ <u>-107.9</u>  | 49616  |   |  |   |  |   |
|  | NATURE   | OF REL  | EASE  |  |   |  |   |  |   |
| Type of Release: Hydro Static Test Water   |  | Volume of F<br>120 barrels  | elease Es<br>of potabl  | stimate<br>le wate   | d<br>r  | Volume   | Recovered   | None   | •   |
| Source of Release: Ruptured Pipeline   |  | Date and He 6/19/2016 @   | our of Occ<br>11:15 a.  | urrence<br>m.  | :   | Date and 6/19/201  | d Hour of D<br>6 @ 11:15  | iscove<br>a.m.                                     | ery:  |
| Was Immediate Notice Given?  | Not  | If YES, To V<br>Katherina D   | Vhom? Co<br>iemer, BLI  | ourtesy<br>M   | Notific   | ation – Va   | anessa Fiel   | ds, NI   | MOCD;   |
| By Whom? Thomas Long   |  | Date and Ti   | me June 1   | 9, 201   | 6@1:  | 35 p.m.  |   |  |   |
| Was a Watercourse Reached?   | 0  | If YES, Volu  | me  |  |   |  | 1   |  |   |
| If a Watercourse was Impacted, Describe Fully.* App<br>south entering an ephemeral wash and continued a<br>Describe Cause of Problem and Remedial Action: A<br>testing of the Trunk MD 16 Inch pipeline. Approxima<br>entering an ephemeral wash and continued a flowing<br>Describe Area Affected and Cleanup Action: Enterpr<br>2016 with NMOCD witnessing sample collection. Ar | proximately 1<br>flowing south<br>t approximate<br>tely 120 barre<br>g south for ap<br>rise collected<br>nalytical resul | 20 barrels of<br>for approxim<br>ely 6:30 p.m.,<br>els of potable<br>pproximately 0<br>soil samples<br>ts indicate no | ootable wa<br>ately 0.20<br>on June 1<br>water was<br>.20 miles.<br>from the se | ater was<br>miles.<br>9, 2016<br>s release<br>ource a<br>ental im  | , a rup<br>ed to ti<br>nd flov                          | sed to the<br>ture occu<br>he ground<br>v path of<br>A third p | e ground su<br>irred during<br>d surface an<br>the release<br>arty correct      | hydro<br>hydro<br>hd flov<br>on Ju                 | and flowed<br>p-static<br>ved south<br>ine 19-20,<br>tion report    |
| I hereby certify that the information given above is tr<br>rules and regulations all operators are required to re<br>which may endanger public health or the environmen<br>relieve the operator of liability should their operations<br>ground water, surface water, human health or the en-<br>operator of responsibility for comeliance with any oth                             | ue and comp<br>port and/or fil<br>nt. The acce<br>s have failed<br>nvironment. I<br>her federal, st                      | lete to the best<br>le certain relea<br>ptance of a C-<br>to adequately<br>n addition, NN<br>tate, or local la        | et of my kn<br>ase notific<br>141 repor<br>investigat<br>10CD acc<br>aws and/or | iowledg<br>ations a<br>t by the<br>te and r<br>eptance<br>r regula | e and<br>and per<br>NMO<br>emedia<br>e of a (<br>tions. | understar<br>form con<br>CD marke<br>ate conta<br>C-141 rep    | nd that purs<br>rective action<br>ad as "Final<br>mination the<br>port does not | suant f<br>ons for<br>I Repo<br>at pos<br>ot relie | to NMOCD<br>r releases<br>ort" does not<br>e a threat to<br>eve the |
| Signature:   |  |   | OIL   | CONS   | ERV   | ATION  | DIVISIO   | NC   |   |
| Printed Name: Jon E. Fields  |  | Approved by   | / Environn  | nental S   | Special   | list:  | S   | L  |   |
| Title: Director, Field Environmental   |  | Approval Da   | te:912  | 12014  |   | xpiration  | Date:   |  |   |
| E-mail Address:jefields@eprod.com  |  | Conditions of   | of Approva  | 1:   |   |  | Attached  | 1 🗆  |   |
| Date: 10/10/2016 Phone: (71:   | 3)381-6684   | NVFI  | 474   | 484  | 134   | ,  |   |  |   |

| District I<br>1625 N. Frenc<br>District II<br>811 S. First St<br>District III<br>1000 Rio Braz<br>District IV<br>1220 S. St. Fra | h Dr., Hobbs,<br>., Artesia, NN<br>os Road, Azt<br>ancis Dr., Sar              | , NM 88240<br>1 88210<br>ec, NM 87410<br>nta Fe, NM 875<br><b>R</b>                                     | sos<br>Releas   | Sta<br>Energ<br>Oil C<br>1220<br>Sa<br>e Notific                                       | ate of<br>y Min<br>Re<br>onse<br>Sout<br>nta F<br>atio           | f New Me<br>erals and<br>esources<br>rvation D<br>h St. Fran<br>e, NM 87<br>n and C<br>PFRATO     | xico<br>Natural<br>ivision<br>ncis Dr.<br>7505<br>Corrective  | Sub<br>e Acti   | Form C<br>Revised August 8<br>Submit 1 Copy to appropriate District<br>in accordance with 19.15.29 N |  |  |  |  |
|--|--|---|---|--|--|---|---|---|--|--|--|--|--|
| Name of C  | ompany:  | Enterprise F  | ield Serv   | vices LLC  |  | Contact: 1  | homas Long  |   |  |  | indi report  |  |  |
| Address: 6   | 14 Reilly A  | Ave, Farming  | gton, NM  | 87401  |  | Telephone   | e No. 505-599   | 9-2286  |  |  |  |  |  |
| Facility Na  | me: Trunk  | (MD 16 Inc  | h   |  |  | Facility Ty   | pe: Natural C   | Sas Pip   | eline  | 14   |  |  |  |
| Surface Ov   | wner: Stat   | e of NM   |   | Mineral (  | Owner  | : State of  | NM  |   | Serial   | Number: RW-236   | 339 141<br>2011  |  |  |
|  |  |   |   | LOCA   |  | N OF RE   | LEASE   |   |  |  | fice   |  |  |
| Unit Letter<br>J   | Section<br>36  | Township<br>30N   | Range<br>11W  | Feet from the 2280   | Nor  | the South   | Feet from the <b>1520</b>   | Line  | West   | County<br>San Juan   |  |  |  |
|  |  |   | I   | _atitude <u>36</u>   | .7674  | <u>3</u> Longitu  | de <u>-107.938</u>  | 93  |  |  | and the set  |  |  |
| 1 1<br>- 1<br>2 4  |  |   |   | NAT  | URE  | OF REL  | EASE  |   |  |  | stý.   |  |  |
| Type of Rel  | ease: Hydro  | >-Static Test \   | Water   |  |  | Volume of<br>100 barrel   | Release Estim<br>s of potable w   | ated<br>ater  | Volume   | Recovered: None  |  |  |  |
| Source of R  | elease: Rup  | otured Pipelin  | le  |  |  | Date and H<br>6/22/2016   | lour of Occurre<br>@ 1:25 p.m.  | nce:  | Date an 6/22/20  | d Hour of Discovery<br>16 @ 1:25 p.m.  | /:   |  |  |
| Was Immed<br>Required  | iate Notice  | Given?  | s 🗌 No  | Not  |  | If YES, To  | Whom? Vanes   | sa Fields   | S, NMOCE   | )  | 141  |  |  |
| By Whom?   | Thomas Lo  | ong   |   |  |  | Date and T  | ime June 22, 1  | 2016@2  | 2:25 p.m.  |  | iiCe<br>Ada  |  |  |
| Was a Wate   | ercourse Re  | ached?  | 🛛 Yes   | 🗌 No   |  | If YES, Vol   | ume   |   |  |  |  |  |  |
| If a Waterco<br>west enterin<br>Describe Ca<br>testing of the<br>entering an   | ourse was Ir<br>og an ephen<br>ause of Prob<br>e Trunk MD<br>ephemeral         | npacted, Des<br>neral wash ar<br>olem and Rer<br>16 Inch pipe<br>wash and co                            | cribe Full<br>nd continu<br>nedial Act<br>line. Appr<br>ntinued a                   | y.* Approxima<br>led a flowing v<br>tion: At approx<br>oximately 100<br>flowing west f | ately 10<br>west fo<br>ximate<br>) barre<br>for app              | 00 barrels of<br>or approxima<br>ly 1:25 p.m.,<br>ls of potable<br>roximately 0                   | potable water<br>tely 0.50 miles<br>on June 22, 2<br>water was rele<br>.50 miles.                       | was relea<br>016, a ru<br>eased to                                      | ased to th<br>pture occu<br>the groun  | e ground surface a<br>urred during hydro-<br>d surface and flowe   | nd flowed<br>static<br>ed west                         |  |  |
| Describe Ar<br>with NMOCI<br>included wit  | ea Affected<br>D witnessin<br>h this "Final                                    | and Cleanup<br>g sample coll<br>l." C-141.  | Action: E<br>ection. Ar   | Enterprise colle<br>nalytical result   | ected s  | soil samples<br>ate no envir  | from the sourc  | e and flo   | ow path of<br>d party co   | the release on Jun<br>rrective action repo   | e 23, 2016<br>rt is                                    |  |  |
| rules and re<br>which may e<br>relieve the c<br>ground wate<br>operator of r   | gulations al<br>endanger pu<br>perator of li<br>er, surface v<br>responsibilit | Information g<br>l operators au<br>ublic health ou<br>iability should<br>vater, human<br>ty for complia | re required<br>re required<br>r the envir<br>I their ope<br>health or<br>nce with a | d to report and<br>onment. The<br>rations have f<br>the environment<br>any other fede  | comple<br>d/or file<br>accep<br>failed t<br>ent. Ir<br>eral, sta | ete to the be<br>e certain rele<br>stance of a C<br>o adequatel<br>n addition, N<br>ate, or local | st of my knowlease notification<br>-141 report by<br>y investigate ar<br>MOCD accepta<br>aws and/or reg | edge and<br>ns and pe<br>the NMC<br>nd remed<br>ance of a<br>julations. | d understa<br>erform cor<br>DCD mark<br>liate conta<br>C-141 rej                                     | and that pursuant to<br>rective actions for r<br>ed as "Final Report<br>amination that pose<br>port does not relieve | NMOCD<br>eleases<br>" does not<br>a threat to<br>e the |  |  |
| Signature:   | Ch   | t. the  | 4   |  |  |   | OIL CO  | VSER  | NOITAN   | DIVISION   | - (  |  |  |
| Printed Nam  | ne: Jon E. F   | ields   | /   |  |  | Approved b  | v Environment   | al Specia   | alist:   | p  |  |  |  |
| Title: Directo   | or, Field Env  | vironmental   |   |  |  | Approval D  | ate: 121112   | 010   | Expiration   | Date:  | 5. E.  |  |  |
| E-mail Addr  | ess:jefields(  | @eprod.com  |   |  |  | Conditions  | of Approval:  |   |  | Attached   | 1993.<br>1993.   |  |  |
| Date: 10/<br>Attach Addi   | IN/2011<br>tional She  | ets If Neces  | Phon<br>sary  | e: (713)381-6  | 684  | NVFIL   | 795438  | 5   |  |  | 30<br>9<br>Rot   |  |  |

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

|  |  |  |  | Sal  | ita r  | -e, INIVI 87   | 505   |   |  |   |  |  |  |
|--|--|--|--|--|--|--|---|---|--|---|--|--|--|
| Release Notification and Corrective Action   |  |  |  |  |  |  |   |   |  |   |  |  |  |
|  |  |  |  |  | 0  | PERATO   | 2   |   | Initial F  | Report  | $\boxtimes$  | Final Report   |  |
| Name of Co   | ompany: E  | Enterprise F   | ield Serv  | vices LLC  |  | Contact: Th  | nomas Long  |   |  |   |  |  |  |
| Address: 6   | 14 Reilly A  | ve, Farmin   | gton, NM   | 87401  |  | Telephone  | No. 505-599-2   | 2286  |  |   |  |  |  |
| Facility Nar   | ne: Trunk  | MD 16 Inc  | h  |  |  | Facility Typ   | e: Natural Ga   | s Pipe  | line   |   |  |  |  |
| Surface Ov   | vner: BLM  |  |  | Mineral C  | )wne   | r: BLM   |   |   | Serial N   | Number:   | SN 08  | 80782  |  |
|  |  |  |  | LOCA   | TIO  | N OF REL   | EASE  |   | ~  |   |  |  |  |
| Unit Letter<br>L   | Section<br>30  | Township<br>30N  | Range<br>11W   | Feet from<br>the 431   | Lin  | e<br>e   | Feet from the 1047  | East<br>Line  | Vest   | County<br>San Jua   | in   |  |  |
|  |  |  | La   | atitude <u>36.7</u>  | 8871   | 6_Longitud   | e_ <u>-107.93019</u>  | 9   |  |   |  |  |  |
|  |  |  |  | NAT  | URE  | OF RELE  | ASE   |   |  |   |  |  |  |
| Type of Rele   | ease: Hydro  | -Static Test   | Water  |  |  | Volume of R<br>100 barrels   | elease Estimate<br>of potable wat   | ed<br>ter   | Volume I   | Recovered   | : Non  | e  |  |
| Source of R  | elease: Rup  | tured Pipelir  | ne   |  |  | Date and Ho<br>6/24/2016 @   | our of Occurrenc<br>3:06 p.m.   | e:  | Date and 6/24/201  | Hour of I<br>6 @ 3:06   | Discov<br><b>p.m.</b>                                | ery:   |  |
| Was Immed  | iate Notice  | Given?   | s 🗆 No   | □ Not  |  | If YES, To V   | hom? Vanessa  | Fields,   | NMOCD  | Katherin  | a Diem   | er, BLM  |  |
| Required   |  |  |  |  |  |  |   |   |  |   |  |  |  |
| By Whom?   | Thomas Lo  | ng   |  |  |  | Date and Tir   | me June 24, 20  | 16@6  | :00 p.m.   |   |  |  |  |
| Was a Wate   | Was a Watercourse Reached? If YES, Volume  |  |  |  |  |  |   |   |  |   |  |  |  |
| If a Waterco   | urse was In  | npacted, Des   | scribe Full  | y.* Approxima  | tely 1   | 00 barrels of p  | ootable water wa  | as relea  | sed to the   | e ground s  | urface   | and flowed   |  |
| Describe Ca<br>testing of the<br>southwest e   | use of Prob<br>Trunk MD<br>ntering an e  | plem and Rei<br>16 Inch pipe<br>phemeral w   | medial Act<br>eline. Appr<br>ash to the  | ion: At approx<br>oximately 100<br>southwest an  | barre<br>d con   | ely 3:06 p.m.,<br>els of potable<br>tinued a flowir  | ng south for appl<br>mater was releasing south for appl   | 6, a rup<br>sed to t<br>roximat                           | he ground<br>ely 0.35 n  | rred durin<br>d surface a<br>niles.                                   | g hydr<br>and flo                                    | o-static<br>wed  |  |
| Describe Are<br>2016 with N<br>included with   | ea Affected<br>MOCD witn<br>n this "Final  | and Cleanu<br>essing samp<br>." C-141.   | o Action: E<br>le collection   | nterprise colle<br>on. Analytical  | ected<br>result  | soil samples<br>s indicate no  | rom the source<br>environmental in  | and flov<br>npact. A                                      | w path of t<br>A third par                                     | the releas<br>ty correcti   | e on Ju<br>ve acti                                   | une 27-29,<br>on report is   |  |
| I hereby cert<br>rules and re-<br>which may e<br>relieve the o<br>ground wate<br>operator of r | tify that the<br>gulations all<br>endanger pu<br>perator of li<br>r, surface w<br>esponsibilit | information (<br>l operators a<br>lblic health o<br>ability should<br>vater, human<br>y fo <del>s compl</del> ia | given above<br>re required<br>r the envired<br>their ope<br>health or<br>ance with a | ve is true and of<br>d to report and<br>conment. The<br>grations have f<br>the environme<br>any other fede | compl<br>l/or fil<br>accep<br>ailed<br>ailed<br>ent. li<br>ral, st | ete to the bes<br>e certain relea<br>otance of a C-<br>to adequately<br>n addition, NM<br>ate, or local la | t of my knowled<br>ase notifications<br>141 report by th<br>investigate and<br>IOCD acceptanc<br>ws and/or regula | ge and<br>and pe<br>e NMO<br>remedi<br>ce of a<br>ations. | understar<br>rform corr<br>CD marke<br>ate contar<br>C-141 rep | nd that pu<br>rective act<br>ed as "Fina<br>mination t<br>port does r | rsuant<br>ions fo<br>al Repo<br>hat pos<br>not relie | to NMOCD<br>r releases<br>ort" does not<br>se a threat to<br>eve the |  |
| Signature:   | Chi  | 6 fresh  | 1  |  |  |  | OIL CONS  | SERV  | ATION  | DIVISI  | ON   |  |  |
| Printed Nam  | e: Jon E. F  | ields  |  | Approved by  | / Environmental  | Specia   | list:   | l   |  | ~>  |  |  |  |
| Title: Directo   | or, Field Env  | vironmental  |  |  |  | Approval Da  | te: 119120  |   | Expiration   | Date:   |  |  |  |
| E-mail Addre   | ess:jefields(  | @eprod.com   |  |  |  | Conditions of  | f Approval:   |   |  | Attache   | ed 🔲   |  |  |
| Date:  | 10/10/2014   | 6  | Phon   | e: (713)381-60   | 684  | NVFILI   | 7953104   |   |  |   |  |  |  |

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

|  | 1000 B 100 B 1000 B 100 |  |   | Sai   | ila i  |   | 505   |   |  |  |   |  |
|--|---|--|---|---|--|---|---|---|--|--|---|--|
|  |   | F  | Releas  | e Notifica  | atic   | on and C  | orrective   | Acti  | on   |  |   |  |
|  |   |  |   |   | 0  | PERATO  | R   |   | ] Initial  | Report   | $\boxtimes$   | Final Repor  |
| Name of C  | ompany:   | Enterprise I   | Field Serv  | ices LLC  |  | Contact: T  | homas Long  |   |  |  |   |  |
| Address: 6   | 14 Reilly A   | Ave, Farmin  | gton, NM  | 87401   |  | Telephone   | No. 505-599-2   | 2286  |  |  |   |  |
| Facility Na  | me: Trunk   | MD 16 Inc  | h   |   |  | Facility Ty   | pe: Natural Ga  | s Pipe  | eline  |  |   |  |
| Surface Ov   | wner: BLM   | 1  |   | Mineral O   | )wne   | er: BLM   |   |   | Serial   | Number:  | SN 08   | 0782   |
|  |   |  |   | LOCA  | TIO  | N OF RE   | LEASE   |   |  |  |   |  |
| Unit Letter<br>P   | Section<br>18   | Township<br>30N  | Range<br>10W  | Feet from the 1017  | No<br>Lin  | erth/South  | Feet from the <b>1218</b>   | East<br>Line  | West   | County<br>San Jua  | n   |  |
|  |   |  | L   | atitude_ <u>36.8</u>  | 0710   | 1 Longitud  | le_ <u>-107.92045</u>   | 8   |  |  |   |  |
|  |   |  |   | NAT   | URE  | OF REL  | EASE  |   |  |  |   |  |
| Type of Rel  | ease: Hydro   | o-Static Test  | Water   |   |  | Volume of F   | Release Estimat   | ed  | Volume   | Recovered  | : None  | Ð  |
| Source of R  | elease: Ru  | ptured Pipeli  | ne  |   |  | Date and Hour of Occurrence: Date and Hour of Discovery:  |   |   |  |  |   | ery:   |
| Was Immed  | iate Notice   | Given?   |   |   |  | If YES, To V  | Vhom? Vanessa   | Fields  | , NMOCD  | ; Katherina  | a Diem  | er, BLM  |
| Required   |   | X Ye   | s 🗌 No  | Not   |  |   |   |   |  |  |   |  |
| By Whom?   | Thomas Lo   | ong  |   |   |  | Date and Ti   | me June 30, 20  | 16 @ 7  | ':00 p.m.  |  |   |  |
| Was a Wate   | ercourse Re   | eached?  |   |   |  | If YES, Volu  | ime   |   |  |  |   |  |
|  |   |  | Yes   | 🛛 No  |  |   |   |   |  |  |   |  |
| If a Waterco   | ourse was In  | mpacted, De  | scribe Full   | y.*   |  |   |   |   |  |  |   |  |
| Describe Ca<br>testing of th<br>southwest a  | ause of Prol<br>e Trunk MD<br>long the rig  | blem and Re<br>) 16 Inch pipe<br>ht-of-way for   | medial Actention Approxim   | tion: At approx<br>oximately 100<br>ately 500 feet.   | imate<br>barre   | ely 5:55 p.m.,<br>els of potable  | on June 30, 201<br>water was relea  | 6, a ru<br>sed to   | pture occu<br>the ground   | irred durin<br>d surface a   | g hydro<br>and flov                                   | o-static<br>ved  |
| Describe Ar<br>southwest a<br>on July 1, 2<br>report is inc                                  | ea Affected<br>long the rig<br>016 with NM<br>luded with t  | l and Cleanu<br>ht-of-way for<br>MOCD witnes<br>his "Final" C-                                       | p Action: A<br>approxim<br>ssing samp<br>-141.  | Approximately<br>ately 500 feet.<br>ble collection. A   | 100 k<br>Ente<br>Analy                                 | parrels of pota<br>erprise collector<br>rtical results in   | ble water was re<br>ad soil samples f<br>ndicate no enviro  | eleased<br>from the   | I to the gro<br>e source a<br>al impact.                         | ound surfa<br>Ind flow pa<br>A third par                                 | ce and<br>ath of th<br>rty corr                       | flowed<br>ne release<br>ective action                                |
| I hereby cer<br>rules and re<br>which may of<br>relieve the of<br>ground wate<br>operator of | tify that the<br>gulations a<br>endanger p<br>operator of l<br>er, surface v<br>responsibili  | Information<br>Il operators a<br>ublic health c<br>liability shoul<br>water, humar<br>ty for complia | given above<br>the require<br>for the envire<br>the e | ve is true and o<br>d to report and<br>ronment. The<br>erations have fa<br>the environme<br>any other feder | comp<br>l/or fil<br>acce<br>ailed<br>ent. I<br>ral, st | lete to the be<br>le certain rele<br>ptance of a C<br>to adequately<br>n addition, NI<br>tate, or local I | st of my knowled<br>ase notifications<br>-141 report by th<br>r investigate and<br>MOCD acceptane<br>aws and/or regul | lge and<br>and pe<br>le NMC<br>remed<br>ce of a<br>lations. | l understa<br>erform con<br>OCD marke<br>iate conta<br>C-141 rep | nd that pur<br>rective act<br>ed as "Fina<br>mination the<br>port does r | rsuant<br>ions for<br>al Repo<br>hat pos<br>not relie | to NMOCD<br>r releases<br>ort" does not<br>se a threat to<br>eve the |
| Signature:   | Signature: In C. tend   |  |   |   |  | OIL CONSERVATION DIVISION   |   |   |  |  |   | ,  |
| Printed Nan  | ne: Jon E. F  | ields  |   |   |  | Approved b  | y Environmental   | Specia  | alist:   | )  |   |  |
| Title: Directo   | or, Field En  | vironmental  |   |   |  | Approval Da   | ate: 119 20   | T   | Expiration   | Date:  |   |  |
| E-mail Addr  | ess:jefields  | @eprod.com   | I   |   |  | Conditions  | of Approval:  |   |  | Attacho  |   |  |
| Date:  | o/ 10/2al   |  | Phon  | e: (713)381-66  | 684  | NUE   | 701948  | 324   | 5  |  | ,u Ll   |  |

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

|  |  | F  | Releas  | e Notifica  | atic   | on and C  | orrective  | Actio  | on  |  |  |   |  |
|--|--|--|---|---|--|---|--|--|---|--|--|---|--|
|  |  |  |   |   | 0  | PERATO  | र  |  | Initial   | Report   | $\boxtimes$  | Final Report  |  |
| Name of C  | ompany:  | Enterprise F   | Field Serv  | vices LLC   |  | Contact: T  | nomas Long   |  |   |  |  |   |  |
| Address: 6   | 14 Reilly A  | Ave, Farmin  | gton, NM  | 87401   |  | Telephone   | No. 505-599-   | 2286   |   |  |  |   |  |
| Facility Na  | me: Trunk  | MD 16 Inc  | h   |   |  | Facility Typ  | be: Natural Ga   | as Pipe  | eline   |  |  |   |  |
| Surface Ov   | wner: BLM  |  |   | Mineral O   | wne  | r: BLM  |  |  | Serial Number: SN 080782                                    |  |  |   |  |
|  |  |  |   | LOCA  | τιο  | N OF REI  | EASE   |  |   |  |  |   |  |
| Unit Letter<br>B   | Section<br>19  | Township<br>30N  | Range<br>10W  | Feet from the 1323  | Lin  | rtb South<br>le   | Feet from<br>the <b>2161</b>   | East<br>Line   | Vest  | County<br>San Jua  | an   |   |  |
|  |  |  | La  | atitude <u>36.8(</u>  | 0068   | 3_Longitud  | e <u>-107.92378</u>  | <u> 86</u>   |   |  |  |   |  |
|  |  |  |   | NATU  | JRE  | OF REL  | EASE   |  |   |  |  |   |  |
| Type of Rel  | ease: Hydro  | o-Static Test  | Water   |   |  | Volume of F<br>700 barrels  | elease Estima<br>of potable wa   | ted<br>ter   | Volume  | Recovered  | d: Non   | e   |  |
| Source of R  | elease: Ru   | ptured Pipelir   | ne  |   |  | Date and Hour of Occurrence:Date and Hour of Discovery:7/5/2016 @ 9:30 a.m.7/5/2016 @ 9:30 a.m.             |  |  |   |  |  |   |  |
| Was Immed  | iate Notice  | Given?   | -   |   |  | If YES, To V  | Vhom? Vaness   | a Fields,  | NMOCD   | ; Katherin   | a Dien   | ner, BLM  |  |
| Required   |  | X Yes  | s 📙 No  | ∐ Not   |  |   |  |  |   |  |  |   |  |
| By Whom?   | Thomas Lo  | ong  |   |   |  | Date and Ti   | me July 5, 201   | 6 @ 3:1  | 5 p.m.  |  | 2 X 1000 100 100                                   |   |  |
| Was a Wate   | /as a Watercourse Reached?   |  |   |   |  |   | me   |  |   |  |  |   |  |
| □ Yes ⊠ No   |  |  |   |   |  |   |  |  |   |  |  |   |  |
| If a Waterco   | urse was Ir  | npacted, Des   | scribe Fully  | .* Approximate  | ely 7  | 00 barrels of   | ootable water w  | as relea   | sed to the  | e ground s   | surface  | and flowed  |  |
| Southwest a  | long the rig   | ht-of-way en   | tering an e   | phemeral was  | h an   | d flowed for a  | oproximately 1,  | 500 feet   |   | od during  | hydro  | static testing  |  |
| of the Trunk<br>right-of-way   | MD 16 Inc<br>entering ar   | h pipeline. Ap<br>n ephemeral  | oproximate<br>wash and  | flowed for approxi  | of po<br>roxim                                     | otable was rel<br>nately 1,500 fe   | eased to the groet.  | ound su  | face and  | flowed so  | uthwe  | st along the  |  |
| Describe Ar<br>with NMOCI<br>included wit  | ea Affected<br>D witnessin<br>h this "Fina   | and Cleanu<br>g sample col<br>l" C-141.  | o Action: E<br>lection. An  | nterprise colle<br>alytical results   | cted   | soil samples<br>cate no enviro  | from the source<br>nmental impact  | and flov<br>t. A third   | w path of<br>party cor                                      | the releas<br>rective ac   | e on J<br>tion re                                  | uly 5, 2016<br>port is  |  |
| I hereby cer<br>rules and re<br>which may e<br>relieve the c<br>ground wate<br>operator of | tify that the<br>gulations al<br>endanger properator of I<br>er, surface v<br>responsibili | information (<br>Il operators a<br>ublic health o<br>iability should<br>vater, human<br>ty for complia | given abov<br>re required<br>r the envir<br>d their ope<br>health or<br>ince with a | re is true and c<br>d to report and,<br>onment. The a<br>rations have fa<br>the environme<br>any other federa | omp<br>/or fil<br>acce<br>ailed<br>nt. 1<br>al, st | lete to the best<br>e certain relea<br>ptance of a C<br>to adequately<br>n addition, NM<br>ate, or local la | at of my knowled<br>ase notifications<br>141 report by the<br>investigate and<br>IOCD acceptant<br>www.and/or regu | dge and<br>s and pe<br>he NMO<br>d remedi<br>nce of a<br>ilations. | understa<br>rform cor<br>CD marke<br>ate conta<br>C-141 rep | nd that pu<br>rective act<br>ed as "Fin<br>mination t<br>port does r | rsuant<br>tions fo<br>al Rep<br>hat po<br>not reli | to NMOCD<br>or releases<br>ort" does not<br>se a threat to<br>eve the |  |
| Signature:   | JNC.   | tul  | ,   |   |  | OIL CONSERVATION DIVISION   |  |  |   |  |  |   |  |
| Printed Nam  | ne: Jon E. F   | ields  |   |   |  | Approved by   | / Environmenta   | I Specia   | list:   | R  | C  | 2   |  |
| Title: Directo   | or, Field En   | vironmental  |   |   |  | Approval Da   | ite: 1119 20   |  | Expiration  | Date:  |  |   |  |
| E-mail Addr  | ess:jefields   | @eprod.com   |   |   |  | Conditions of   | of Approval:   |  |   | Attache  | ed 🗌   |   |  |
| Date: 10   | Intrac   |  | Phone   | e <sup>.</sup> (713)381-66  | 84   | NVEIL   | 188482   | 20   |   |  |  |   |  |

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

|  | Santa Fe, INIVI 67505  |   |   |   |  |   |   |   |  |  |  |  |  |  |
|--|--|---|---|---|--|---|---|---|--|--|--|--|--|--|
|  |  | F   | Releas  | e Notifica  | ntic   | on and C  | orrective   | Act   | ion  |  |  |  |  |  |
|  |  |   |   |   | 0  | PERATO  | २   |   | Initial I  | Report   | $\boxtimes$  | Final Report   |  |  |
| Name of C  | ompany:  | Enterprise I  | Field Serv  | vices LLC   |  | Contact: T  | nomas Long  |   |  |  |  |  |  |  |
| Address: 6   | 14 Reilly A  | ve, Farmin  | gton, NM  | 87401   |  | Telephone   | No. 505-599-2   | 286   |  |  |  |  |  |  |
| Facility Na  | me: Trunk  | MD 16 Inc   | h   |   |  | Facility I y  | be: Natural Ga  | s Pip   | eline  |  |  |  |  |  |
| Surface Ov   | wner: BLM  |   |   | Mineral O   | wne  | r: BLM  |   |   | Serial I   | Number:  | SN 08  | 0782   |  |  |
|  |  |   |   | LOCA  | TIO  | N OF REL  | EASE  |   |  |  |  |  |  |  |
| Unit Letter<br>P   | Section<br>18  | Township<br>30N   | Range<br>10W  | Feet from<br>the 991  | No<br>Lin  | rth/South   | Feet from<br>the <b>1263</b>  | Line  | West   | County<br>San Jua  | In   |  |  |  |
|  |  |   | La  | titude <u>36.88</u>   | 070  | 50 Longitu  | de_ <u>-107.92057</u>   | <u>'0</u>   |  | M 76   |  |  |  |  |
|  |  |   |   | NATU  | JRE  | OF RELI   | EASE  |   |  |  |  |  |  |  |
| Type of Rele   | ease: Hydro  | -Static Test  | Water   |   |  | Volume of F   | elease Estimat  | ed  | Volume   | Recovered  | d: Non   | e  |  |  |
| Source of R  | elease: Rur  | otured Pineli   | 16  |   | _  | Date and Ho   | Hour of   | Discove   | erv:   |  |  |  |  |  |
|  |  |   |   |   |  | 7/8/2016 @ 12:51 p.m. 7/8/2016 @ 12:51 p.m.   |   |   |  |  |  |  |  |  |
| Was Immed  | iate Notice  | Given?  | s 🗌 No  | Not   |  | If YES, To V  | Vhom? Vanessa   | Field   | s, NMOCD   | ; Katherina  | a Diem   | er, BLM  |  |  |
| Required   |  |   |   |   |  |   |   |   |  |  |  |  |  |  |
| By Whom?   | By Whom? Thomas Long   |   |   |   |  |   | me July 8, 2016   | @ 1:  | 59 p.m.  |  |  |  |  |  |
| Was a Wate   | ercourse Re  | ached?  | Yes   | 🛛 No  |  | If YES, Volu  | me  |   |  |  |  |  |  |  |
| If a Waterco   | urse was In  | npacted, Des  | scribe Full   | y.*   |  |   |   |   |  |  |  |  |  |  |
| Describe Ca<br>testing of the<br>southwest a   | ause of Prot<br>e Trunk MD<br>long the rig   | blem and Re<br>16 Inch pipe<br>ht-of-way for  | medial Ac<br>eline. Appr<br>approxim  | tion: At approxii<br>oximately 100 l<br>ately 500 feet.   | mate   | ely 5:55 p.m.,<br>els of potable  | on June 30, 2010<br>water was releas  | 6, a ru<br>sed to                                   | pture occu<br>the ground   | rred durin<br>I surface a  | g hydro<br>and flov                                  | o-static<br>wed  |  |  |
| Describe Ar<br>along the rig<br>2016 with N<br>included wit                                  | ea Affected<br>ght-of-way fo<br>MOCD witn<br>h this "Final                                       | and Cleanup<br>or approxima<br>essing samp<br>" C-141.  | o Action: A<br>Itely 500 fo<br>Ile collection                                     | Approximately 1<br>eet. Enterprise o<br>on. Analytical r  | 00 b<br>colle<br>resul                             | parrels of pota<br>acted soil sam<br>ts indicate no   | ble was released<br>bles from the sou<br>environmental ir   | d to th<br>urce a<br>npact                          | e ground s<br>nd flow pat<br>. A third pa                            | urface and<br>th of the re<br>rty correct                                | l flowe<br>lease<br>ive act                          | d southwest<br>on July 8,<br>ion report is                           |  |  |
| I hereby cer<br>rules and re<br>which may e<br>relieve the c<br>ground wate<br>operator of r | tify that the<br>gulations al<br>endanger pu<br>operator of li<br>er, surface w<br>responsibilit | information g<br>l operators a<br>ublic health o<br>ability should<br>vater, human<br>ŷ for eomplig | given above<br>re require<br>r the envire<br>their ope<br>health or<br>nce with a | ve is true and co<br>d to report and/<br>conment. The a<br>prations have fa<br>the environmen<br>any other federa | omp<br>or fil<br>accep<br>iled<br>nt. li<br>al, st | lete to the bes<br>e certain relea<br>ptance of a C-<br>to adequately<br>n addition, NN<br>ate, or local la | t of my knowled<br>ase notifications<br>141 report by the<br>investigate and<br>IOCD acceptance<br>ws and/or regula | ge an<br>and p<br>e NM<br>reme<br>ce of a<br>ations | d understan<br>erform corr<br>OCD marke<br>diate contan<br>C-141 rep | nd that pur<br>rective act<br>ed as "Fina<br>mination the<br>port does n | rsuant<br>ions fo<br>al Repo<br>hat pos<br>not relie | to NMOCD<br>r releases<br>ort" does not<br>se a threat to<br>ave the |  |  |
| Signature  |  | 18 1  | 60  |   |  |   | OIL CONS  | SER   | VATION   | DIVISI   | ON   |  |  |  |
| Drinted New  |  | · Tut   | ig  |   |  |   |   |   | X  | $\bigcirc$   | Y  |  |  |  |
| Finted Nafr  | ie. Jon E. F   | ielus   |   |   |  | Approved by   | Environmental   | Speci   | alist  | in (   | en   | <b>)</b>   |  |  |
| Title: Directo   | or, Field Env  | vironmental   |   |   |  | Approval Da   | te:119/201  | ר   | Expiration   | Date:  |  |  |  |  |
| E-mail Addr  | ess:jefields(  | @eprod.com  |   |   |  | Conditions of   | f Approval:   |   |  | Attache  | d 🗆  |  |  |  |
| Date:  | 10/10/2014   | 4   | Phon  | e: (713)381-668   | 84   | NYFILD  | 1727535   |   |  |  |  |  |  |  |

Date:

\* Attach Additional Sheets If Necessary

# State of New Mexico **Energy Minerals and Natural** Resources

**Oil Conservation Division** 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# Santa Fe, NM 87505 **Release Notification and Corrective Action**

|  |   |   | Cicas  |   | 0   | PERATO   |   |   | ] Initial I  | Report   | $\boxtimes$   | Final Report   |
|--|---|---|--|---|---|--|---|---|--|--|---|--|
| Name of C  | ompany:   | Enterprise F  | ield Serv  | ices LLC  |   | Contact: Th  | nomas Long  |   |  | Toport   |   |  |
| Address: 6   | 14 Reilly A   | ve, Farmin  | gton, NM   | 87401   | -   | Telephone  | No. 505-599-2   | 2286  |  |  |   |  |
| Facility Na  | me: Trunk   | MD 16 Inc   | ĥ  |   |   | Facility Typ   | e: Natural Ga   | s Pipe  | eline  |  |   |  |
| Surface Ov   | wner: BLM   |   |  | Mineral (   | Owne  | r: BLM   |   |   | Serial   | Number:  | SN 08   | 0782   |
|  |   |   |  | LOCA  |   | N OF REL   | EASE  |   |  |  | 8   |  |
| Unit Letter<br>B   | Section<br>19   | Township<br>30N   | Range<br>10W   | Feet from the 1193  | Lin   | e<br>e   | Feet from the <b>2118</b>   | Line  | West   | County<br>San Jua  | n   |  |
|  |   |   | La   | titude <u>36.8</u>  | 0103  | <u>0</u> Longitud  | e <u>-107.92366</u>   | <u>0</u>  |  |  |   |  |
| Type of Rele   | ease: Hydro   | -Static Test  | Water  | INAI  | UKE   | Volume of R  | elease Estimat  | ed  | Volume   | Recovered  | : None  | •  |
| Source of R  | elease: Rup   | otured Pipelir  | ne   |   |   | Date and Ho<br>7/9/2016 @  | our of Occurrence<br>9:45 a.m.  | ce:   | Date and 7/9/2016  | d Hour of D<br>@ 9:45 a.   | )iscove<br>. <b>m.</b>                              | ery:   |
| Was Immed  | iate Notice   | Given?  | s 🗌 No   | Not   |   | If YES, To V   | hom? Vanessa  | i Fields  | , NMOCD  | ; Katherina  | Dieme   | er - BLM   |
| Required   |   |   |  |   |   |  |   |   |  |  |   |  |
| By Whom?   | Thomas Lo   | ong   |  |   |   | Date and Tir   | me July 9, 2016   | 6 @ 11:   | 00 p.m.  |  |   |  |
| Was a Watercourse Reached?   |   |   |  |   |   |  |   |   |  |  |   |  |
| If a Waterco<br>southwest a  | urse was In<br>long the rig   | npacted, Des<br>ht-of-way en  | cribe Fully<br>tering an e   | /.* Approxima<br>phemeral wa  | itely 6<br>sh and   | 00 barrels of p<br>d flowed for a  | potable water w | as relea<br>500 feel  | ased to the<br>t.  | e ground si  | urface  | and flowed   |
| Describe Ca<br>of the Trunk<br>along the rig   | MD 16 Incl<br>MD 16 Incl<br>ht-of-way e   | olem and Rei<br>h pipeline. Ap<br>entering an ei  | medial Act<br>oproximate<br>ohemeral v   | ion: At approx<br>ely 600 barrels<br>vash and flow  | kimate<br>s of po<br>ved for                                | ely 9:45 a.m., o<br>otable water w<br>r approximate  | on July 9, 2016,<br>ras released to t<br>ly 1,500 feet.   | a ruptu<br>he grou  | ure occurro<br>und surfac  | ed during h<br>e and flow  | iydro-s<br>ed sou                                   | tatic testing<br>thwest  |
| Describe Ar<br>with NMOCI<br>included with   | ea Affected<br>D witnessing<br>h this "Final  | and Cleanup<br>g sample col<br>" C-141.   | Action: E<br>lection. An   | nterprise colle<br>alytical result  | ected<br>s indic  | soil samples f<br>cate on enviro   | rom the source<br>nmental impact  | and flo<br>. A thirc  | w path of<br>I party cor   | the release<br>rective acti  | on Ju   | ly 11, 2016<br>ort is  |
| I hereby cerr<br>rules and re-<br>which may e<br>relieve the o<br>ground wate<br>operator of r | tify that the<br>gulations al<br>endanger pu<br>perator of li<br>er, surface y<br>responsibilit | information of<br>l operators a<br>ublic health o<br>iability should<br>vater, human<br>y for complia | given abov<br>re required<br>r the envir<br>d their ope<br>health or<br>nce with a | e is true and<br>d to report and<br>onment. The<br>rations have f<br>the environment<br>ny other fede | compl<br>d/or fil<br>accep<br>failed<br>ent. In<br>eral, st | ete to the bes<br>e certain relea<br>otance of a C-<br>to adequately<br>n addition, NM<br>ate, or local la | t of my knowled<br>ase notifications<br>141 report by th<br>investigate and<br>IOCD acceptan<br>ws and/or regul | lge and<br>and pe<br>le NMC<br>remed<br>ce of a<br>lations. | l understa<br>erform com<br>OCD marke<br>iate conta<br>C-141 rep | nd that pur<br>rective acti<br>ed as "Fina<br>mination th<br>port does n | suant t<br>ons for<br>I Repo<br>nat pos<br>ot relie | to NMOCD<br>r releases<br>ort" does not<br>se a threat to<br>eve the |
| Signature:   | In  | 1. find   | 1  |   |   |  | OIL CON   | SER\  | ATION  | DIVISIO  | <u>NC</u>   |  |
| Printed Nam  | ne: Jon E. F  | ields   |  |   |   | Approved by  | Environmental   | Specia  | ulist.   | ant  | 3   |  |
| Title: Directo   | or, Field Env   | vironmental   |  |   |   | Approval Da  | te: 11920   | ש   | Expiration   | Date:  |   |  |
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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| Name of C  | company:   | Enterprise F   | ield Serv   | ices LLC  |  | Contact: T   | nomas Long  |  |  |   |  |   |  |
| Address: 6   | 614 Reilly A   | ve, Farmin   | gton, NM  | 87401   |  | Telephone  | No. 505-599-2   | 2286   |  |   |  |   |  |
| Facility Na  | me: Trunk  | MD 16 Inc  | h   |   |  | Facility Typ   | be: Natural Ga  | as Pipe  | eline  |   |  |   |  |
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#### ENVIRONMENTAL SITE INVESTIGATION REPORT

Property:

Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)

SW ¼ S1 T29N R11W (Rupture 1 and 2) SE ¼ S36 T30N R11W (Rupture 3) NW ¼ S30 T30 N R10W (Rupture 4) SE ¼ S18 T30N R10W (Rupture 5 and 7) NE ¼ S19 T30N R10W (Rupture 6, 8, and 9) San Juan County, New Mexico

> September 12, 2016 Apex Project No. 725040112171

> > Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Ranee Deechilly

Project Scientist

Kyle Summers, CPG

Branch Manager/Senior Geologist

Apex TITAN, Inc., a subsidiary of Apex Companies, LLC 606 S Rio Grande, Unit A, Aztec, NM 87410 T 505.334.5200 F 505.334.5204 www.apexcos.com

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#### ENVIRONMENTAL SITE INVESTIGATION REPORT

#### Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)

SW ¼ S1 T29N R11W (Rupture 1 and 2) SE ¼ S36 T30N R11W (Rupture 3) NW ¼ S30 T30 N R10W (Rupture 4) SE ¼ S18 T30N R10W (Rupture 5 and 7) NE ¼ S19 T30N R10W (Rupture 6, 8, and 9) San Juan County, New Mexico

Apex Project No. 725040112171

#### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

The Trunk MD 16" pipeline hydrostatic test release sites (Ruptures 1 through 9) originated within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in Section 1, Township 29 North, Range 11 West; Section 36, Township 30 North, Range 11 West; and Sections 18, 19, and 30, Township 30 North, Range 10 West, in San Juan County, New Mexico, referred to hereinafter as the "Site(s)".

Between June 17, 2016 and July 7, 2016, Enterprise performed a series of hydrostatic pressure tests on the Trunk MD 16" pipeline, which was separated into four test segments (Segment 1, 2A, 2B, and 3) covering a total span of approximately 10.6 miles, to evaluate the integrity of the pipeline. The hydrostatic pressure tests ultimately resulted in nine (9) ruptures (all in Segments 1 and 2A). The resulting pipeline failures were subsequently repaired and re-tested until the entire pipeline passed the over-pressure and sustained-pressure hydrostatic tests.

#### **Geospatial Positioning Coordinates (GPS)**

- Rupture-1: 36.75053N, 107.94731W (Segment 1)
- Rupture-2: 36.747890N, 107.949531W (Segment 1)
- Rupture-3: 36.767490N, 107.939080W (Segment 1)
- Rupture-4:36.78877N, 107.93019W (Segment 2A)
- Rupture-5:36.80710N, 107.92046W (Segment 2A)
- Rupture-6: 36.80065N,107.92373W (Segment 2A)
- Rupture-7: 36.80694 N, 107.92058W (Segment 2A)
- Rupture-8: 36.80097N, 107.92358W (Segment 2A)
- Rupture-9: 36.80079N, 107.92367W (Segment 2A)

Rupture Sites 1, 2, and 4 through 9 are located on land managed by the United States Bureau of Land Management (BLM). Rupture Site 3 is located on land owned by the State of New Mexico and managed by the New Mexico State Land Office. The Sites are surrounded by native-vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise MD 16" Trunk natural gas pipeline which traverses the area from approximately north to south.

A topographic map depicting the locations of the Sites is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.



#### 1.2 Project Objective

The primary objective of the Environmental Site Investigation (ESI) was to evaluate the potential impact to the environment from the released hydrostatic test water. The soils contacted by the test water (as well as the test water itself) were evaluated to determine if constituents of concern (COCs) affected the on-Site soils at concentrations above the applicable regulatory standards.

#### 2.0 SITE RANKING

In accordance with the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site.

| Ranking Criteria   |                   |    |  |  |  |  |  |  |  |  |
|--|-------------------|----|--|--|--|--|--|--|--|--|
|  | <50 feet          | 20 |  |  |  |  |  |  |  |  |
| Depth to Groundwater   | 50 to 99 feet     | 10 |  |  |  |  |  |  |  |  |
|  | >100 feet         | 0  |  |  |  |  |  |  |  |  |
| Wellhead Protection Area •<br><1,000 feet from a water       | Yes               | 20 |  |  |  |  |  |  |  |  |
| source, or; <200 feet from<br>private domestic water source. | No                | 0  |  |  |  |  |  |  |  |  |
|  | <200 feet         | 20 |  |  |  |  |  |  |  |  |
| Distance to Surface Water Body                               | 200 to 1,000 feet | 10 |  |  |  |  |  |  |  |  |
|  | >1,000 feet       | 0  |  |  |  |  |  |  |  |  |
| Total Ranking Score  |                   |    |  |  |  |  |  |  |  |  |

The ranking criteria are provided in the following table:

Based on the Apex TITAN, Inc. (Apex) evaluation of the scoring criteria, each of the nine (9) ruptures occurred in, or flowed into, areas that would rank ">19" in the OCD ranking system, due to the distance to surface water body ("blue line" ephemeral washes), and at some releases the projected depth to groundwater due to the duration of the flow path. No water source wells or private domestic water sources are present in the vicinity of the ruptures/releases.

A Site ranking of >19 correlates to the most stringent closure standards for an OCD regulated release, which includes: Benzene at 10 milligrams/kilogram (mg/kg); benzene, ethylbenzene, toluene and total xylenes (BTEX) at 50 mg/kg; and total petroleum hydrocarbon (TPH) combined gasoline range organics (GRO) and diesel range organics (DRO) at 100 mg/kg.

## 3.0 FIELD ACTIVITIES

## 3.1 Pipeline Testing and Repair

Between June 17, 2016 and July 7, 2016, Enterprise performed a series of hydrostatic pressure tests on the Trunk MD 16" pipeline, which was separated into four test segments (Segments 1, 2A, 2B, and 3), covering a total distance of approximately 10.6 miles, to evaluate the integrity of the pipeline. The hydrostatic pressure tests ultimately resulted in nine (9) ruptures (all occurring in Segments 1 and 2A). The resulting pipeline failures were subsequently repaired by replacing pipe, and were re-tested until the entire pipeline passed the over-pressure and sustained-pressure hydrostatic tests. During the pipeline repair and ESI activities, Halo Services, Inc.,



provided heavy equipment and labor support, and Ranee Deechilly, Chad D'Aponti, and Kyle Summers, Apex environmental professionals, provided environmental support.

#### 3.2 Environmental Site Investigation

Enterprise's and Apex's soil sampling program combined to include the collection of 38 confirmation flow path samples from the nine (9) rupture Sites for laboratory analysis. Additionally, four (4) water samples were collected from the ruptured pipeline or from standing water at Rupture Sites 1, 2, 6, and 8.

The following table presents each of the Rupture Sites and identifies the corresponding release samples and sample matrices:

| Rupture Site | Sample Matrix | Sample I.D                    |
|--------------|---------------|-------------------------------|
| 1            | Soil          | Source and SC-3 –SC-4         |
| 2            | Soil          | SR SC-1 and FP-1 through FP-4 |
| 3            | Soil          | RP-1 through RP-8             |
| 4            | Soil          | WP-1 through WP-6             |
| 5            | Soil          | DP-1 through DP-4             |
| 6            | Soil          | XP-1 through XP-4             |
| 7            | Soil          | HP-1 through HP-3             |
| 8&9          | Soil          | CP-1 through CP-5             |

| Rupture Site | Sample Matrix | Sample I.D |  |
|--------------|---------------|------------|--|
| 1            | Water         | Source     |  |
| 2            | Water         | SR WS-1    |  |
| 6            | Water         | Rupture #6 |  |
| 8            | Water         | Rupture #8 |  |

Enterprise coordinated with the New Mexico OCD to determine appropriate sample collection points and laboratory analytical methods for each Rupture Site. A representative from either the OCD or the BLM was present during each of the soil sampling events.

Domestic supply water from the city of Bloomfield was utilized as the test fluid during each of the hydrostatic tests. Enterprise collected one (1) sample from the pipeline on June 16, 2016, however it was later determined that the sample had been collected from pipeline fluids in front of the pipeline cleaning pig instead of from test water in the pressure test section. As a result, the June 16 sample was not included in this report. Enterprise subsequently collected two (2) samples (Header ES 480 and Header ES 571) of the test water from the water-filled pipeline on June 17, 2016.



Figures 3A through 3E depict the approximate flow paths and sampling locations in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix B.

The flow path soil samples and water samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The samples and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory of Albuquergue, New Mexico for analysis.

#### 3.3 Soil Laboratory Analytical Methods

The flow path soil samples from Rupture Sites 1 through 9 were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA SW-846 Method #8021, total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0. The "Source" sample from Rupture Site 2 was also analyzed for RCRA 8 Metals. The soil samples from Rupture Sites 8 and 9 were also analyzed for anions and cations.

Laboratory results for Site soils are summarized in Tables 1 through 3, included in Appendix C. The executed chain-of-custody form and laboratory data sheets are provided in Appendix D.

#### 3.4 Water Laboratory Analytical Methods

The water sample from Rupture Site 2 was analyzed for volatile organic compounds (VOCs) using EPA Method #8260. The water samples collected from Header ES 480, Header ES 571, and Rupture Sites 1, 6, and 8 samples were analyzed for VOCs using EPA Method #8260, and RCRA 8 Metals. The water sample from Rupture Site 6 was also analyzed for Cations/Anions.

Laboratory results for the water samples are summarized in Tables 4 through 6, included in Appendix C. Due to the extensive list of VOC analytes, Table 4 includes only results for analytes that exceeded the practical quantitation limit (PQL) in one (1) or more samples. The executed chain-of-custody form and laboratory data sheets are provided in Appendix D.

#### 4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

#### 4.1 Soil Samples

Apex compared the constituent concentrations or PQLs associated with the rupture soil samples to the OCD *Remediation Action Levels* (RALs), New Mexico Environmental Department (NMED) baseline Soil Screening Levels (SSLs) (Residential and Industrial), and historic background levels (Arsenic) from available United States Geological Survey (USGS)<sup>1</sup> records.

<sup>&</sup>lt;sup>1</sup> "Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States (1984)." Hansford T. Shacklette and Josephine G. Boerngen, Professional Paper 1270 USGS.



#### Benzene, BTEX, TPH, and Chlorides

- The laboratory analyses of the confirmation soil samples collected from Rupture Sites 1 through 9 indicate benzene concentrations below the PQLs, which are below the OCD *RAL* of 10 milligram per kilogram (mg/kg).
- The laboratory analyses of the confirmation soil samples indicate total BTEX concentrations below the PQLs, which are below the OCD *RAL* of 50 mg/kg.
- The laboratory analyses of confirmation soil samples collected from Rupture Sites 1 through 9 indicate combined TPH GRO/DRO concentrations ranging from below PQLs to 25 mg/kg (XP-1), which are below the OCD *RAL* of 100 mg/kg.
- The laboratory analyses of confirmation soil samples indicate chloride concentrations ranging from below PQLs to 150 mg/kg (Source).

#### **RCRA 8 Metals**

- The laboratory analysis of the confirmation soil sample collected from the Rupture Site 2 source area ("Source") indicates an arsenic concentration of 6.9 mg/kg, which is above the NMED base-line Residential SSL of 4.25 mg/kg and below the base-line NMED Industrial SSL of 21.5 mg/kg. Available USGS data<sup>1</sup> suggests that background arsenic concentrations for surficial material in this region of New Mexico are >6.5 parts per million<sup>2</sup> (ppm), which would indicate that the arsenic level at Rupture Site 2 is on the lower end of anticipated background levels. Additionally, arsenic was not detected at elevated concentrations in the test water or release water samples.
- The remaining RCRA 8 analytes in the soil sample "Source", from Rupture Site 2, were detected at levels below the NMED Residential SSLs or were below the laboratory PQLs, which are below the NMED Residential SSLs.

#### Anions and Cations

- NMED SSLs are not established for calcium, magnesium, potassium, sodium, and sulfates. The laboratory analyses of confirmation soil samples collected from Rupture Sites 8 and 9 indicate: calcium concentrations ranging from 660 mg/kg (CP-4) to 1,900 mg/kg (CP-1); magnesium concentrations ranging from 380 mg/kg (CP-4) to 1,300 mg/kg (CP-3); potassium concentrations ranging from 370 mg/kg (CP-4) to 870 mg/kg (CP-3); sodium concentrations ranging from below PQLs to 35 mg/kg (CP-5); and sulfate concentrations ranging from 5.7 mg/kg (CP-4) to 17 mg/kg (CP-1).
- The laboratory analyses of confirmation soil samples collected from Rupture Sites 8 and 9 indicate fluoride concentrations ranging from 0.45 mg/kg (CP-4) to 2.3 mg/kg (CP-5), which are below NMED SSLs.
- The laboratory analyses of confirmation soil samples collected from Rupture Sites 8 and 9 indicate nitrate concentrations ranging from below PQLs to 1.4 mg/kg (CP-2), which are below NMED SSLs.

Confirmation sample laboratory analytical results for soils are provided in Tables 1 through 3 in Appendix C.

<sup>&</sup>lt;sup>2</sup> Part per million is equivalent to mg/kg

Enterprise Field Services, LLC Environmental Site Investigation Report Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9) September 12, 2016



#### 4.2 Water Samples

Apex compared constituent concentrations or method PQLs associated with the water samples collected from the test-water filled pipeline and Rupture Sites 1, 2, 6, and 8 to the New Mexico Water Quality Control Commission (WQCC) Human Health Standards (HHSs), and WQCC Domestic Water Supply Standards (DWSSs).

#### VOCs

- The test-water sample (Header ES 480) exhibited polycyclic aromatic hydrocarbons (PAHs) at a combined concentration of 44 micrograms/liter (µg/L), which exceeds the WQCC HHS of 30 µg/L. The test-water sample (Header ES 571) exhibited a benzene concentration of 16 µg/L, which exceeds the WQCC HHS of 10 µg/L. No other VOC exceedances were identified in the test-water samples.
- No VOC exceedances were identified in the Rupture Site water samples.

Naphthalene is not listed individually as a contaminant under the NM WQCC HHSs, but is included with the PAHs.

#### **RCRA 8 Metals**

- The two (2) test-water samples exhibited barium concentrations of 0.060 milligram per liter (mg/L) (Header ES 480) and 0.090 mg/L (Header ES 571), which are below the WQCC HHS of 1.0 mg/L. Arsenic, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver concentrations for the test-water samples are below PQLs, which are below applicable WQCC HHSs.
- The water samples collected from Rupture Sites 1, 6, and 8 exhibited barium concentrations ranging from 0.13 mg/L (Source) to 0.25 mg/L (Ruptures 6 and 8), which are below the WQCC HHS of 1.0 mg/L. Arsenic concentrations range from below PQLs to 0.011 mg/L (Rupture #6), which are below the WQCC HHS of 0.1 mg/L. Chromium concentrations range from below PQLs to 0.0047 mg/L (Rupture #6), which are below the WQCC HHS of 0.05 mg/L. Mercury concentrations range from below PQLs to 0.0019 mg/L (Rupture #6), which are below the WQCC HHS of 0.05 mg/L. Mercury concentrations range from below PQLs to 0.00019 mg/L (Rupture #6), which are below the WQCC HHS of 0.02 mg/L. Cadmium, Lead, Selenium, and Silver concentrations are below PQLs, which are below the applicable WQCC HHSs.

#### Anions and Cations

The water sample collected from Rupture 6 exhibited concentrations of fluoride (0.35 mg/L), chloride (37 mg/L), bromide (0.93 mg/L), nitrate (0.32 mg/L), sulfate (54 mg/L), calcium (44mg/L), magnesium (7.8 mg/L), potassium (19 mg/L), and sodium (18 mg/L), which are within acceptable ranges with regards to established WQCC HSSs and DWSSs.

The results of the water sample analyses are summarized in Tables 4 through 6 of Appendix C. Due to the extensive list of VOC analytes, Table 4 includes only results for analytes that exceeded the PQL in one (1) or more samples. Laboratory data sheets and chain-of-custody documentation are provided as Appendix D.



#### 5.0 FINDINGS AND RECOMMENDATIONS

The Trunk MD 16" pipeline hydrostatic test (Ruptures 1 through 9) Sites are located within the Enterprise pipeline ROW in Section 1, Township 29 North, Range 11 West, Section 36, Township 30 North, Range 11 West, and Sections 18, 19, and 30, Township 30 North, Range 10 West, in San Juan County, New Mexico. Rupture Sites 1, 2, and 4 through 9 are located on land managed by the BLM. Rupture Site 3 is located on land owned by the State of New Mexico and managed by the New Mexico State Land Office. The Sites are surrounded by native-vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise MD 16" Trunk natural gas pipeline which traverses the area from approximately north to south.

Between June 17, 2016 and July 7, 2016, Enterprise performed a series of hydrostatic pressure tests on the Trunk MD 16" pipeline, which was separated into four test segments (Segments 1, 2A, 2B, and 3), covering a total distance of approximately 10.6 miles, to evaluate the integrity of the pipeline. The hydrostatic pressure tests ultimately resulted in nine (9) ruptures (all occurring in Segments 1 and 2A). The resulting pipeline failures were subsequently repaired by replacing pipe, and were re-tested until the entire pipeline passed the over-pressure and sustained-pressure hydrostatic tests.

- The primary objective of the ESI was to evaluate the potential impact to the environment from the released hydrostatic test water. The soils contacted by the test water (as well as the test water itself) were evaluated to determine if COCs affected the on-Site soils at concentrations above the applicable regulatory standards.
- A total of 38 confirmation flow path soil samples were collected from the nine (9) rupture locations for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD *RAL*s for Site rankings of ">19".
- Sample SR SC-1 exhibited an arsenic concentration that exceeds the baseline NMED Residential SSLs, but appears to be on the lower end of the concentration range published by the USGS for this region of New Mexico.
- A total of four (4) water samples were collected from the ruptured pipeline or from standing water at Rupture Sites 1, 2, 6, and 8 for laboratory analyses. Based on analytical results, the release Site water samples exhibited COC concentrations below the NM WQCC HHSs and/or DWSSs.
- Two (2) samples of the test water from the water-filled pipeline were collected for laboratory analysis. Based on analytical results, test-water sample (Header ES 480) exhibited a combined PAH concentration above the WQCC HHS of 30 µg/L and testwater sample (Header ES 571) exhibited a benzene concentration above the WQCC HHS of 10 µg/L. No other VOC exceedances were identified in the hydrostatic test-water samples.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

#### 6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed or described herein. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g.

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Enterprise Field Services, LLC Environmental Site Investigation Report Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9) September 12, 2016



laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.



# APPENDIX A

# Figures



1

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Project No. 725040112171

21Houston SouthiDraffing Waw Mexico 84/2016/726040(1217 Wilgure 2.mxd - 5/6/2016 - WGS 1984 Web Moreator Auxiliary Sphere Projected Coordinate System



2: Houston South/Drafting/New Mexico 04/2016/725040112171/Figure 3A.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System







Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 3D.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System





APEX

# Photographic Documentation



Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)



View of the Rupture 2 flow path (midsection), facing northeast.



# Photograph 2

View of the Rupture 2 flow path (southern section), facing northeast.



# Photograph 3

View of the Rupture 3 source area, facing west.





Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)

## Photograph 4

View of the end of the Rupture 3 flow path, facing north.



## Photograph 5

View of the Rupture 4 source area, facing west.



#### Photograph 6

View of the Rupture 4 flow path (midsection), facing north.





Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)

# Photograph 7

View of the Rupture 5 source area, facing northwest.



# Photograph 8

View of the Rupture 5 flow path, facing southwest.



# Photograph 9

View of the Rupture 6 source area, facing northwest.





Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)





Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)

# Photograph 13

View of the Rupture 8/9 source area, facing southwest.



# Photograph 14

View of the end of the Rupture 8/9 flow path, facing northwest.





# APPENDIX C

# Tables



# TABLE 1 Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9) SOIL ANALYTICAL SUMMARY - BTEX, TPH, AND CHLORIDES

| Sample I.D.                          | Date    | Sample   | Benzene | Toluene | Ethylbenzene | Xylenes | Total BTEX | TPH     | TPH     | TPH     | Chlorides |
|--------------------------------------|---------|----------|---------|---------|--------------|---------|------------|---------|---------|---------|-----------|
|                                      | 1       | Depth    |         |         |              |         |            |         |         |         |           |
|                                      |         | (feet)   | (mg/kg) | (mg/kg) | (mg/kg)      | (mg/kg) | (mg/kg)    | GRO     | DRO     | MRO     | (mg/kg)   |
|                                      |         |          |         |         |              |         |            | (mg/kg) | (mg/kg) | (mg/kg) |           |
| New Mexico Energy, Mineral & Natural |         |          |         |         |              |         |            |         |         |         |           |
| Resources Department, Oil            |         |          | 10      | NE      | NE           | NE      | 50         | 1(      | 00      | NE      | NE        |
| Action Level                         |         |          |         |         |              |         |            | 2       |         |         |           |
| Rupture 1 Flow Path Samples          |         |          |         |         |              |         |            |         |         |         |           |
| Source                               | 6.17.16 | 0 to 0.5 | <0.025  | < 0.049 | < 0.049      | <0.098  | ND         | <4.9    | <9.4    | <47     | 150       |
| SC-3                                 | 6.17.16 | 0 to 0.5 | <0.025  | < 0.050 | < 0.050      | <0.10   | ND         | <5.0    | <9.8    | <49     | <30       |
| SC-4                                 | 6.17.16 | 0 to 0.5 | < 0.024 | <0.048  | <0.048       | < 0.095 | ND         | <4.8    | <9.3    | <47     | <30       |
| Rupture 2 Flow Path Samples          |         |          |         |         |              |         |            |         |         |         |           |
| SR SC-1                              | 6.19.16 | 0 to 0.5 | < 0.024 | <0.048  | <0.048       | < 0.095 | ND         | <4.8    | <9.5    | NA      | 1.5       |
| FP-1                                 | 6.20.16 | 0 to 0.5 | <0.025  | < 0.050 | < 0.050      | <0.10   | ND         | <5.0    | <9.8    | NA      | <30       |
| FP-2                                 | 6.20.16 | 0 to 0.5 | < 0.024 | <0.048  | <0.048       | < 0.097 | ND         | <4.8    | 21      | NA      | <30       |
| FP-3                                 | 6.20.16 | 0 to 0.5 | < 0.024 | <0.047  | <0.047       | < 0.095 | ND         | <4.7    | <9.2    | NA      | <30       |
| FP-4                                 | 6.20.16 | 0 to 0.5 | < 0.023 | <0.047  | <0.047       | < 0.094 | ND         | <4.7    | <10     | NA      | <30       |
| Rupture 3 Flow Path Samples          |         |          |         |         |              |         |            |         |         |         |           |
| RP-1                                 | 6.23.16 | 0 to 0.5 | < 0.023 | <0.047  | < 0.047      | < 0.093 | ND         | <4.7    | <9.7    | NA      | 1.5       |
| RP-2                                 | 6.23.16 | 0 to 0.5 | < 0.023 | <0.047  | <0.047       | < 0.094 | ND         | <4.7    | <10     | NA      | <1.5      |
| RP-3                                 | 6.23.16 | 0 to 0.5 | <0.023  | <0.047  | < 0.047      | < 0.093 | ND         | <4.7    | <9.5    | NA      | <30       |
| RP-4                                 | 6.23.16 | 0 to 0.5 | <0.024  | <0.047  | <0.047       | < 0.095 | ND         | <4.7    | <9.8    | NA      | <30       |
| RP-5                                 | 6.23.16 | 0 to 0.5 | <0.024  | < 0.049 | <0.049       | <0.097  | ND         | <4.9    | <9.5    | NA      | <30       |
| RP-6                                 | 6.23.16 | 0 to 0.5 | < 0.024 | <0.047  | <0.047       | < 0.094 | ND         | <4.7    | <9.3    | NA      | <30       |
| RP-7                                 | 6.23.16 | 0 to 0.5 | <0.023  | < 0.046 | <0.046       | < 0.092 | ND         | <4.6    | <9.9    | NA      | <30       |
| RP-8                                 | 6.23.16 | 0 to 0.5 | <0.025  | < 0.049 | <0.049       | <0.098  | ND         | <4.9    | <9.8    | NA      | <30       |
| Rupture 4 Flow Path Samples          |         |          |         |         |              |         |            |         |         |         |           |
| WP-1                                 | 6.27.16 | 0 to 0.5 | < 0.024 | < 0.049 | < 0.049      | < 0.097 | ND         | <4.9    | <9.8    | NA      | <30       |
| WP-2                                 | 6.27.16 | 0 to 0.5 | <0.024  | < 0.049 | < 0.049      | < 0.097 | ND         | <4.9    | <9.6    | NA      | <30       |
| WP-3                                 | 6.27.16 | 0 to 0.5 | <0.025  | < 0.050 | < 0.050      | <0.10   | ND         | <5.0    | <10     | NA      | <30       |
| WP-4                                 | 6.27.16 | 0 to 0.5 | < 0.025 | < 0.049 | < 0.049      | < 0.098 | ND         | <4.9    | <10     | NA      | <30       |
| WP-5                                 | 6.27.16 | 0 to 0.5 | <0.025  | < 0.050 | <0.050       | < 0.10  | ND         | <5.0    | <10     | NA      | <30       |
| WP-6                                 | 6.29.16 | 0 to 0.5 | < 0.024 | <0.048  | < 0.048      | < 0.096 | ND         | <4.8    | <9.6    | NA      | <30       |


# TABLE 1 Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9) SOIL ANALYTICAL SUMMARY - BTEX, TPH, AND CHLORIDES

| Sample I.D.                       | Date   | Sample                                   | Benzene | Toluene   | Ethylbenzene       | Xylenes     | Total BTEX | TPH     | TPH     | TPH     | Chlorides             |
|-----------------------------------|--|--|---------|-----------|--------------------|-------------|------------|---------|---------|---------|-----------------------|
|                                   |  | Depth<br>(feet)                          | (ma/ka) | (ma/ka)   | (ma/ka)            | (malka)     | (ma/ka)    | GRO     | DRO     | MRO     | (ma/ka)               |
|                                   |  | (leer)                                   | (mg/kg) | (iiiging) | (ing/kg)           | (119/19)    | (ing/kg)   | ono     | DIG     | millo   | (mg) rg(              |
|                                   |  |  |         | 1.1.1     |                    |             |            | (mg/kg) | (mg/kg) | (mg/kg) |                       |
| New Mexico<br>Resou<br>Conservati | Energy, Mine<br>rces Departm<br>on Division, R<br>Action Level | ral & Natural<br>ent, Oil<br>temediation | 10      | NE        | NE                 | NE          | 50         | 1(      | 00      | NE      | NE                    |
|                                   |  |  |         |           | Rupture 5 Flow Pa  | th Samples  |            |         |         |         |                       |
| DP-1                              | 7.01.16  | 0 to 0.5                                 | <0.023  | <0.046    | <0.046             | <0.092      | ND         | <4.6    | <9.8    | NA      | <30                   |
| DP-2                              | 7.01.16  | 0 to 0.5                                 | <0.023  | <0.047    | <0.047             | < 0.093     | ND         | <4.7    | <9.6    | NA      | <30                   |
| DP-3                              | 7.01.16  | 0 to 0.5                                 | <0.024  | <0.049    | < 0.049            | < 0.097     | ND         | <4.9    | <9.9    | NA      | <30                   |
| DP-4                              | 7.01.16  | 0 to 0.5                                 | <0.024  | <0.047    | <0.047             | < 0.094     | ND         | <4.7    | <10     | NA      | <30                   |
|                                   |  |  |         |           | Rupture 6 Flow Pa  | th Samples  |            |         |         |         |                       |
| XP-1                              | 7.05.16  | 0 to 0.5                                 | <0.024  | <0.048    | <0.048             | <0.096      | ND         | <4.8    | 25      | NA      | <30                   |
| XP-2                              | 7.05.16  | 0 to 0.5                                 | < 0.024 | <0.047    | <0.047             | < 0.094     | ND         | <4.7    | <9.4    | NA      | <30                   |
| XP-3                              | 7.05.16  | 0 to 0.5                                 | <0.023  | <0.047    | <0.047             | < 0.094     | ND         | <4.7    | <9.8    | NA      | <30                   |
| XP-4                              | 7.05.16  | 0 to 0.5                                 | < 0.024 | <0.048    | <0.048             | < 0.096     | ND         | <4.8    | <9.9    | NA      | <30                   |
|                                   |  |  |         |           | Rupture 7 Flow Pa  | th Samples  |            |         |         |         | and the second second |
| HP-1                              | 7.08.16  | 0 to 0.5                                 | < 0.025 | < 0.050   | < 0.050            | <0.10       | ND         | <5.0    | <10     | NA      | <30                   |
| HP-2                              | 7.08.16  | 0 to 0.5                                 | < 0.024 | <0.048    | <0.048             | < 0.096     | ND         | <4.8    | <10     | NA      | <30                   |
| HP-3                              | 7.08.16  | 0 to 0.5                                 | <0.023  | <0.046    | < 0.046            | < 0.092     | ND         | <4.6    | <9.6    | NA      | <30                   |
|                                   |  | e e                                      |         |           | Rupture 8/9 Flow P | ath Samples |            |         |         |         |                       |
| CP-1                              | 7.11.16  | 0 to 0.5                                 | <0.023  | <0.047    | <0.047             | < 0.093     | ND         | <4.7    | <9.6    | NA      | 3.4 .                 |
| CP-2                              | 7.11.16  | 0 to 0.5                                 | <0.023  | <0.047    | <0.047             | < 0.094     | ND         | <4.7    | <9.7    | NA      | 3.6                   |
| CP-3                              | 7.11.16  | 0 to 0.5                                 | <0.023  | <0.047    | <0.047             | < 0.094     | ND         | <4.7    | <9.7    | NA      | 4.6                   |
| CP-4                              | 7.11.16  | 0 to 0.5                                 | <0.024  | <0.047    | <0.047             | < 0.094     | ND         | <4.7    | <9.6    | NA      | 2.5                   |
| CP-5                              | 7.11.16  | 0 to 0.5                                 | <0.024  | <0.048    | <0.048             | < 0.096     | ND         | <4.8    | <9.9    | NA      | 6.1                   |

ND = Not Detected above the Laboratory Reporting Limits

NE = Not established



# TABLE 2Trunk MD 16" Pipeline Hydrostatic Test- (Ruptures 1 through 9)SOIL ANALYTICAL SUMMARY- RCRA 8 METALS

| Sample I.D.                | Date                           | Sample Depth                                       | Arsenic | Barium  | Cadmium | Chromium | Lead    | Mercury | Selenium | Silver  |
|----------------------------|--------------------------------|--|---------|---------|---------|----------|---------|---------|----------|---------|
|                            |                                | (feet)   | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg)  | (mg/kg) | (mg/kg) | (mg/kg)  | (mg/kg) |
| New Mexic<br>default Sol   | co Environme<br>Il Screening L | ntal Department (NMED)<br>evels (SSLs) Residential | 4.25    | 15,600  | 70.5    | 96.6     | 400     | 23.8    | 391      | 391     |
| New Mexic<br>default So    | co Environme<br>bil Screening  | ntal Department (NMED)<br>Levels (SSLs) Industrial | 21.5    | 255,000 | 1,100   | 505      | 800     | 112     | 6,490    | 6,490   |
| Rupture 2 Flow Path Sample |                                |  |         |         |         |          |         |         |          |         |
| SR SC-1                    | 6.19.16                        | 0 to 0.5   | 6.9     | 45      | < 0.099 | 1.3      | 3.7     | < 0.032 | <2.5     | <0.25   |

Note: Concentrations in **bold** and yellow exceed a soil screening level



# TABLE 3Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)SOIL ANALYTICAL SUMMARY - ANION/CATIONS

| Sample I.D.                       | Date                         | Sample Depth                              | Calcium | Magnesium          | Potassium | Sodium  | Fluoride | Nitrate   | Sulfate |
|-----------------------------------|------------------------------|---|---------|--------------------|-----------|---------|----------|-----------|---------|
|                                   |                              | (feet)                                    | (mg/kg) | (mg/kg)            | (mg/kg)   | (mg/kg) | (mg/kg)  | (mg/kg)   | (mg/kg) |
| New Mexico Er<br>default Soil Scr | vironmental<br>reening Level | Department (NMED)<br>s (SSLs) Residential | NE      | NE                 | NE        | NE      | 4,690    | 125,000   | NE      |
| New Mexico Er<br>default Soil Sc  | vironmental<br>reening Leve  | Department (NMED)<br>Is (SSLs) Industrial | -       | -                  | -         | -       | 77,800   | 2,080,000 | · •     |
|                                   |                              |   | Rup     | ture 8/9 Flow Path | Samples   |         |          |           |         |
| CP-1                              | 7.11.16                      | 0 to 0.5                                  | 1,900   | 1,100              | 730       | <50     | 0.71     | 0.84      | 17      |
| CP-2                              | 7.11.16                      | 0 to 0.5                                  | 790     | 590                | 550       | 29      | 0.74     | 1.4       | 11      |
| CP-3                              | 7.11.16                      | 0 to 0.5                                  | 1,400   | 1,300              | 870       | 32      | 1.2      | 1.0       | 10      |
| CP-4                              | 7.11.16                      | 0 to 0.5                                  | 660     | 380                | 370       | <25     | 0.45     | 0.55      | 5.7     |
| CP-5                              | 7.11.16                      | 0 to 0.5                                  | 1,100   | 570                | 440       | 35      | 2.3      | <0.30     | 15      |

NE = Not established



|  | TABLE 4       Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)   |        |         |                     |        |                                  |                                  |                       |                           |                            |                 |                                |                          |                               |                         |                           |
|--|---|--------|---------|---------------------|--------|----------------------------------|----------------------------------|-----------------------|---------------------------|----------------------------|-----------------|--------------------------------|--------------------------|-------------------------------|-------------------------|---------------------------|
|  | WATER ANALYTICAL SUMMARY- Volatile Organic Compounds  |        |         |                     |        |                                  |                                  |                       |                           |                            |                 |                                |                          |                               |                         |                           |
| Sample I.D.                                    | Date  | (hð\r) | Toluene | (T)<br>Ethylbenzene | (hà/r) | Gti<br>7 1,2,4- Trimethylbenzene | Gti<br>7 1,3,5- Trimethylbenzene | (hôri)<br>Naphthalene | ()<br>1-Methylnaphthalene | 64)<br>2-Methylnaphthalene | Acetone Acetone | (7/64)<br>Bromodichloromethane | Chloroform<br>Chloroform | ຣ໌ຕ໌<br>Dibromochloromethan່e | (T)<br>Isopropylbenzene | (hôrt)<br>n-Propylbenzene |
| ow Mexico Water Quality Co<br>Human Health Sta | w Mexico Water Quality Control Commission<br>Human Health Standards 10 750 750 620 NE NE PAH-30 NE NE 100 NE NE NE NE |        |         |                     |        |                                  |                                  |                       |                           | NE                         |                 |                                |                          |                               |                         |                           |
|  |   |        |         |                     |        | Pipel                            | ine Header Wa                    | ter Samples           |                           |                            |                 |                                |                          | A.                            |                         |                           |
| Header ES 480                                  | 6.17.16   | 7.2    | 31      | 3.7                 | 64     | 50                               | 19                               | 23                    | 8.9                       | 12                         | 50              | 2.7                            | 24                       | <1.0                          | 2.1                     | 6.8                       |
| Header ES 571                                  | 6.17.16   | 16     | 58      | 5.6                 | 80     | 25                               | 9.3                              | 10                    | <4.0                      | 4.5                        | <10             | 4.8                            | 19                       | <1.0                          | 1.8                     | 4.3                       |
|  |   |        |         |                     |        | R                                | upture 1 Water                   | r Sample              |                           |                            |                 |                                |                          |                               |                         |                           |
| Source   | 6.16.16   | 3.5    | 43      | 11                  | 120    | 26                               | 12                               | 9.1                   | 7.4                       | 9.8                        | <10             | 10                             | 67                       | <1.0                          | 2.6                     | 3.1                       |
|  |   |        |         |                     |        | R                                | upture 2 Water                   | r Sample              |                           |                            |                 |                                | 1997 - 2018 V            |                               |                         |                           |
| SR WS-1  | 6.19.16   | <1.0   | 1.1     | <1.0                | 4.9    | 1.6                              | 1.1                              | <2.0                  | <4.0                      | <4.0                       | <10             | 8.8                            | 74                       | 1.1                           | <1.0                    | <1.0                      |
|  | Rupture 6 Water Sample  |        |         |                     |        |                                  |                                  |                       |                           |                            |                 |                                |                          |                               |                         |                           |
| Rupture #6*                                    | 7.5.16  | <200   | <200    | <200                | <300   | <200                             | <200                             | <400                  | <800                      | <800                       | <2,000          | <200                           | 85 (J)                   | <200                          | <200                    | <200                      |
|  | Rupture 8 Water Sample  |        |         |                     |        |                                  |                                  |                       |                           |                            |                 |                                |                          |                               |                         |                           |
| Rupture #8                                     | 7.9.16  | <1.0   | <1.0    | <1.0                | <1.5   | <1.0                             | <1.0                             | <2.0                  | <4.0                      | <4.0                       | <10             | 6.6                            | 47                       | <1.0                          | 47                      | <1.0                      |

Note: Concentrations in **bold** and yellow exceed a WQCC Human Health Standard.

1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, bromodichloromethane, dibromochloromethane, isopropylbenzene, and n-propylbenzene are not priority pollutants under the federal Clean Water Act (CWA) or the NM WQCC.

NE = Not Established

NA = Not Analyzed

\* Sample was diluted due to TCLP reporting request.

J= Analyte dected below quantitation limits



# TABLE 5Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)WATER ANALYTICAL SUMMARY- RCRA 8 METALS

| Sample I.D.                              | Date                                | Arsenic   | Barium | Cadmium       | Chromium      | Lead     | Mercury     | Selenium | Silver   |
|--|-------------------------------------|-----------|--------|---------------|---------------|----------|-------------|----------|----------|
|  |                                     | (mg/L)    | (mg/L) | (mg/L)        | (mg/L)        | (mg/L)   | (mg/L)      | (mg/L)   | (mg/L)   |
| New Mexico Water (<br>Commission Human H | Quality Control<br>Health Standards | 0.1       | 1.0    | 0.01          | 0.05          | 0.05     | 0.002       | 0.05     | 0.05     |
|  | u can car                           |           | Pi     | peline Header | Water Samples |          | da da da    | 2.<br>   |          |
| Header ES 480                            | 6.17.16                             | <0.020    | 0.060  | <0.0020       | < 0.0060      | <0.0050  | 0.00023     | <0.050   | < 0.0050 |
| Header ES 571                            | 6.17.16                             | <0.020    | 0.090  | <0.0020       | < 0.0060      | < 0.0050 | <0.00020    | <0.050   | < 0.0050 |
|  |                                     |           |        | Rupture 1 W   | ater Sample   |          |             | 1. 4     |          |
| Source                                   | 6.16.16                             | <0.020    | 0.13   | <0.0020       | <0.0060       | <0.0050  | <0.00020    | <0.050   | <0.0050  |
|  | 5                                   |           |        | Rupture 6 W   | ater Sample   | í.       |             |          |          |
| Rupture #6                               | 7.5.16                              | 0.011 (J) | 0.25   | <0.0020       | 0.0047 (J)    | <0.0050  | 0.00019 (J) | <0.050   | <0.0050  |
| Rupture 8 Water Sample                   |                                     |           |        |               |               |          |             |          |          |
| Rupture #8                               | 7.9.16                              | <0.020    | 0.25   | <0.0020       | <0.0060       | 0.0066   | <0.00020    | <0.050   | <0.0050  |

Note: All RCRA 8 Metals are priority pollutants under the NM WQCC and federal CWA except Barium. Barium is a priority pollutant under NM WQCC but not under the federal CWA.

J= Analyte dected below quantitation limits



-

# TABLE 6Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)WATER ANALYTICAL SUMMARY- ANIONS AND CATIONS

| Sample I.D.  | Date                   | Fluoride<br>(mg/L) | Chloride<br>(mg/L) | Bromide<br>(mg/L) | Nitrate<br>(mg/L) | Sulfate<br>(mg/L) | Calcium<br>(mg/L) | Magnesium<br>(mg/L) | Potassium<br>(mg/L) | Sodium<br>(mg/L) |
|--|------------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|------------------|
| New Mexico Water Quality Control<br>Commission Human Health and<br>Domestic Water Supply Standards |                        | 1.6                | 250                | NE                | 10                | 600               | NE                | NE                  | NE                  | . NE             |
|  | Rupture 6 Water Sample |                    |                    |                   |                   |                   |                   |                     |                     |                  |
| Rupture #6   | 7.5.16                 | 0.35 (J)           | 37                 | 0.93              | 0.32 (J)          | 54                | 44                | 7.8                 | 19                  | 18               |

Note: Bromide, calcium, mangesium, potassium, and sodium are not priority pollutants under the federal CWA or the NM WQCC.

Chloride and sulfate priority pollutants under NM WQCC but not under the federal CWA.

NE = Not Established

J= Analyte detected below quantitation limits



APPENDIX D

Laboratory Data Sheets & Chain of Custody Documentation

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

June 27, 2016

Thomas Long Enterprise Field Services 614 Reilly Ave. Farmington, NM 87401 TEL: (505) 599-2141 FAX

RE: MD 16 Inch Trunk Rupture

OrderNo.: 1606A37

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/18/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### Date Reported: 6/27/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field ServicesClient Sample ID: Source 36.750534-107.947310Project:MD 16 Inch Trunk RuptureCollection Date: 6/17/2016 8:30:00 AMLab ID:1606A37-001Matrix: SOILReceived Date: 6/18/2016 8:00:00 AM

| Analyses                         | Result   | PQL Qua | Units | DF | Date Analyzed         | Batch |
|----------------------------------|----------|---------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         |          |         |       |    | Analyst               | LGT   |
| Chloride                         | 150      | 30      | mg/Kg | 20 | 6/20/2016 4:23:06 PM  | 25953 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 6       |       |    | Analyst               | JME   |
| Diesel Range Organics (DRO)      | ND       | 9.4     | mg/Kg | 1  | 6/20/2016 6:21:15 PM  | 25934 |
| Motor Oil Range Organics (MRO)   | ND       | 47      | mg/Kg | 1  | 6/20/2016 6:21:15 PM  | 25934 |
| Surr: DNOP                       | 88.7     | 70-130  | %Rec  | 1  | 6/20/2016 6:21:15 PM  | 25934 |
| EPA METHOD 8015D: GASOLINE RANG  | E        |         |       |    | Analyst               | DJF   |
| Gasoline Range Organics (GRO)    | ND       | 4.9     | mg/Kg | 1  | 6/21/2016 12:52:31 PM | 25948 |
| Surr: BFB                        | 102      | 80-120  | %Rec  | 1  | 6/21/2016 12:52:31 PM | 25948 |
| EPA METHOD 8021B: VOLATILES      |          |         |       |    | Analyst               | DJF   |
| Benzene                          | ND       | 0.025   | mg/Kg | 1  | 6/21/2016 12:52:31 PM | 25948 |
| Toluene                          | ND       | 0.049   | mg/Kg | 1  | 6/21/2016 12:52:31 PM | 25948 |
| Ethylbenzene                     | ND       | 0.049   | mg/Kg | 1  | 6/21/2016 12:52:31 PM | 25948 |
| Xylenes, Total                   | ND       | 0.098   | mg/Kg | 1  | 6/21/2016 12:52:31 PM | 25948 |
| Surr: 4-Bromofluorobenzene       | 114      | 80-120  | %Rec  | 1  | 6/21/2016 12:52:31 PM | 25948 |
|                                  |          |         |       |    |                       |       |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method    | Blank          |
|-------------|----|---|----|--|----------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |                |
|             | н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 1 of 7    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | Fage 1 01 /    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |                |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit | t as specified |
|             |    |   |    |  |                |

Date Reported: 6/27/2016

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services

MD 16 Inch Trunk Rupture

**Project:** 

#### Client Sample ID: SC-3 36.748655-107.950182 Collection Date: 6/17/2016 9:06:00 AM Received Date: 6/18/2016 8:00:00 AM

| Lab ID: 1606A37-004              | Matrix:  | SOIL    | Received 1 | Date: 6/1 | 8/2016 8:00:00 AM    |       |
|----------------------------------|----------|---------|------------|-----------|----------------------|-------|
| Analyses                         | Result   | PQL Qua | l Units    | DF        | Date Analyzed        | Batch |
| EPA METHOD 300.0: ANIONS         |          |         |            |           | Analyst              | LGT   |
| Chloride                         | ND       | 30      | mg/Kg      | 20        | 6/20/2016 4:35:31 PM | 25953 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 6       |            |           | Analyst              | JME   |
| Diesel Range Organics (DRO)      | ND       | 9.8     | mg/Kg      | 1         | 6/20/2016 6:49:30 PM | 25934 |
| Motor Oil Range Organics (MRO)   | ND       | 49      | mg/Kg      | 1         | 6/20/2016 6:49:30 PM | 25934 |
| Surr: DNOP                       | 90.2     | 70-130  | %Rec       | 1         | 6/20/2016 6:49:30 PM | 25934 |
| EPA METHOD 8015D: GASOLINE RANG  | E        |         |            |           | Analyst              | DJF   |
| Gasoline Range Organics (GRO)    | ND       | 5.0     | mg/Kg      | 1         | 6/21/2016 1:17:01 PM | 25948 |
| Surr: BFB                        | 101      | 80-120  | %Rec       | 1         | 6/21/2016 1:17:01 PM | 25948 |
| EPA METHOD 8021B: VOLATILES      |          |         |            |           | Analyst              | DJF   |
| Benzene                          | ND       | 0.025   | mg/Kg      | 1         | 6/21/2016 1:17:01 PM | 25948 |
| Toluene                          | ND       | 0.050   | mg/Kg      | 1         | 6/21/2016 1:17:01 PM | 25948 |
| Ethylbenzene                     | ND       | 0.050   | mg/Kg      | 1         | 6/21/2016 1:17:01 PM | 25948 |
| Xylenes, Total                   | ND       | 0.10    | mg/Kg      | 1         | 6/21/2016 1:17:01 PM | 25948 |
| Surr: 4-Bromofluorobenzene       | 115      | 80-120  | %Rec       | 1         | 6/21/2016 1:17:01 PM | 25948 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method    | Blank    |
|-------------|----|---|----|--|----------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |          |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Pag      |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | I ag     |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |          |
|             | S  | % Recovery outside of range due to dilution or matrix | w  | Sample container temperature is out of limit | it as sn |

- nge
- ntitation limits Page 2 of 7
- iner temperature is out of limit as specified

Analytical Report Lab Order 1606A37 Date Reported: 6/27/2016

## Hall Environmental Analysis Laboratory, Inc.

# CLIENT:Enterprise Field ServicesClient Sample ID: SC-4 36-749991-107.948064Project:MD 16 Inch Trunk RuptureCollection Date: 6/17/2016 9:16:00 AMLab ID:1606A37-005Matrix: SOILReceived Date: 6/18/2016 8:00:00 AM

| Analyses                         | Result   | PQL Qua | Units | DF | Date Analyzed        | Batch |
|----------------------------------|----------|---------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS         |          |         |       |    | Analyst              | LGT   |
| Chloride                         | ND       | 30      | mg/Kg | 20 | 6/20/2016 4:47:56 PM | 25953 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 6       |       |    | Analyst              | JME   |
| Diesel Range Organics (DRO)      | ND       | 9.3     | mg/Kg | 1  | 6/20/2016 7:17:45 PM | 25934 |
| Motor Oil Range Organics (MRO)   | ND       | 47      | mg/Kg | 1  | 6/20/2016 7:17:45 PM | 25934 |
| Surr: DNOP                       | 90.1     | 70-130  | %Rec  | 1  | 6/20/2016 7:17:45 PM | 25934 |
| EPA METHOD 8015D: GASOLINE RANGE | E        |         |       |    | Analyst              | DJF   |
| Gasoline Range Organics (GRO)    | ND       | 4.8     | mg/Kg | 1  | 6/21/2016 1:41:34 PM | 25948 |
| Surr: BFB                        | 98.8     | 80-120  | %Rec  | 1  | 6/21/2016 1:41:34 PM | 25948 |
| EPA METHOD 8021B: VOLATILES      |          |         |       |    | Analyst              | DJF   |
| Benzene                          | ND       | 0.024   | mg/Kg | 1  | 6/21/2016 1:41:34 PM | 25948 |
| Toluene                          | ND       | 0.048   | mg/Kg | 1  | 6/21/2016 1:41:34 PM | 25948 |
| Ethylbenzene                     | ND       | 0.048   | mg/Kg | 1  | 6/21/2016 1:41:34 PM | 25948 |
| Xylenes, Total                   | ND       | 0.095   | mg/Kg | 1  | 6/21/2016 1:41:34 PM | 25948 |
| Surr: 4-Bromofluorobenzene       | 112      | 80-120  | %Rec  | 1  | 6/21/2016 1:41:34 PM | 25948 |
|                                  |          |         |       |    |                      |       |

| Contraction of the second s |    | A 19 August A 19 A |    |   |
|---|----|--|----|---|
| Qualifiers:   | *  | Value exceeds Maximum Contaminant Level.   | в  | Analyte detected in the associated Method Blank           |
|   | D  | Sample Diluted Due to Matrix   | E  | Value above quantitation range                            |
|   | Н  | Holding times for preparation or analysis exceeded   | J  | Analyte detected below quantitation limits Page 3 of 7    |
|   | ND | Not Detected at the Reporting Limit  | Р  | Sample pH Not In Range                                    |
|   | R  | RPD outside accepted recovery limits   | RL | Reporting Detection Limit                                 |
|   | S  | % Recovery outside of range due to dilution or matrix  | W  | Sample container temperature is out of limit as specified |
|   |    |  |    |   |

| Client:    | Enterp    | rise Field Services      |  |   |
|------------|-----------|--------------------------|--|---|
| Project:   | MD To     | типк кирште              |  | _ |
| Sample ID  | MB-25953  | SampType: MBLK           | TestCode: EPA Method 300.0: Anions                     |   |
| Client ID: | PBS       | Batch ID: 25953          | RunNo: 35022   |   |
| Prep Date: | 6/20/2016 | Analysis Date: 6/20/2016 | SeqNo: 1083001 Units: mg/Kg                            |   |
| Analyte    |           | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |   |
| Chloride   |           | ND 1.5                   |  |   |
| Sample ID  | LCS-25953 | SampType: LCS            | TestCode: EPA Method 300.0: Anions                     |   |
| Client ID: | LCSS      | Batch ID: 25953          | RunNo: 35022   |   |
| Prep Date: | 6/20/2016 | Analysis Date: 6/20/2016 | SeqNo: 1083002 Units: mg/Kg                            |   |

Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD RPDLimit Qual LowLimit Chloride 14 1.5 15.00 0 95.2 90 110

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 7

WO#: 1606A37

| Client:<br>Project:  | Enterpris<br>MD 16 I  | se Field Ser<br>nch Trunk l  | vices<br>Ruptur  | e   |   |  |  |  |                                      |                        |      |
|--|---|--|--|---|---|--|--|--|--------------------------------------|------------------------|------|
| Sample ID<br>Client ID:  | MB-25888<br>PBS   | SampTy<br>Batch  | ype: MI  | BLK<br>888  | Tes   | tCode: El  | PA Method<br>5005  | 8015M/D: Die   | esel Range                           | e Organics             |      |
| Prep Date:   | 6/16/2016   | Analysis D   | ate: 6   | /20/2016  | S   | SeqNo: 1   | 082125   | Units: %Red  | •                                    |                        |      |
| Analyte  |   | Result   | PQL  | SPK value   | SPK Ref Val   | %REC   | LowLimit   | HighLimit  | %RPD                                 | RPDLimit               | Qual |
| Surr: DNOP   |   | 9.0  |  | 10.00   |   | 90.4   | 70   | 130  |                                      |                        |      |
| Sample ID  | LCS-25888   | SampT  | ype: LC  | s   | Test  | Code: El   | PA Method  | 8015M/D: Die   | esel Range                           | e Organics             |      |
| Client ID:   | LCSS  | Batch  | ID: 25   | 888   | R   | unNo: 3  | 5005   |  |                                      |                        |      |
| Prep Date:   | 6/16/2016   | Analysis D   | ate: 6   | /20/2016  | S   | eqNo: 1  | 082126   | Units: %Red  | •                                    |                        |      |
| Analyte  |   | Result   | PQL  | SPK value   | SPK Ref Val   | %REC   | LowLimit   | HighLimit  | %RPD                                 | RPDLimit               | Qual |
| Surr: DNOP   |   | 4.5  |  | 5.000   |   | 90.3   | 70   | 130  |                                      |                        |      |
|  |   |  |  |   |   |  |  |  |                                      |                        |      |
| Sample ID  | MB-25934  | SampT  | ype: MI  | BLK   | Tes   | Code: El   | PA Method  | 8015M/D: Die   | sel Range                            | e Organics             | -    |
| Sample ID<br>Client ID:  | MB-25934<br>PBS   | SampT<br>Batch   | ype: MI  | BLK<br>934  | Tesi<br>R   | Code: El   | PA Method<br>5006  | 8015M/D: Die   | esel Range                           | Organics               |      |
| Sample ID<br>Client ID:<br>Prep Date:  | MB-25934<br>PBS<br>6/20/2016  | SampTy<br>Batch<br>Analysis Da   | ype: MI<br>ID: 25<br>ate: 6/   | BLK<br>934<br>/20/2016  | Tesi<br>R<br>S  | Code: El<br>tunNo: 3<br>teqNo: 1   | PA Method<br>5006<br>082985  | 8015M/D: Die<br>Units: mg/K  | esel Range<br>g                      | • Organics             |      |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte   | MB-25934<br>PBS<br>6/20/2016  | SampTy<br>Batch<br>Analysis Da<br>Result   | ype: <b>MI</b><br>ID: <b>25</b><br>ate: <b>6</b><br>PQL                                      | BLK<br>934<br>/20/2016<br>SPK value   | Tesi<br>R<br>SPK Ref Val                                  | Code: El<br>tunNo: 3<br>SeqNo: 1<br>%REC   | PA Method<br>5006<br>082985<br>LowLimit  | 8015M/D: Die<br>Units: mg/K<br>HighLimit   | esel Range<br>g<br>%RPD              | • Organics             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range (   | MB-25934<br>PBS<br>6/20/2016<br>Drganics (DRO)  | SampTy<br>Batch<br>Analysis Da<br>Result<br>ND   | ype: MI<br>ID: 25<br>ate: 6/<br>PQL<br>10  | BLK<br>934<br>/20/2016<br>SPK value   | Tesi<br>R<br>SPK Ref Val                                  | Code: El<br>CunNo: 3<br>SeqNo: 1<br>%REC   | PA Method<br>5006<br>082985<br>LowLimit  | 8015M/D: Die<br>Units: mg/K<br>HighLimit   | ssel Range<br>g<br>%RPD              | e Organics             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range (<br>Motor Oil Rang<br>Surr: DNOP   | MB-25934<br>PBS<br>6/20/2016<br>Drganics (DRO)<br>ne Organics (MRO)                                   | SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>ND<br>10   | ype: MI<br>ID: 25<br>ate: 6/<br>PQL<br>10<br>50  | BLK<br>934<br>/20/2016<br>SPK value<br>10.00  | Tesi<br>R<br>SPK Ref Val                                  | Code: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>105  | PA Method<br>5006<br>082985<br>LowLimit<br>70  | 8015M/D: Die<br>Units: mg/K<br>HighLimit<br>130  | g<br>%RPD                            | e Organics             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range C<br>Motor Oil Rang<br>Surr: DNOP<br>Sample ID  | MB-25934<br>PBS<br>6/20/2016<br>Drganics (DRO)<br>te Organics (MRO)                                   | SampTy<br>Batch<br>Analysis D<br>Result<br>ND<br>ND<br>10<br>SampTy                                    | ype: Mi<br>ID: 25<br>ate: 6/<br>PQL<br>10<br>50<br>ype: LC                                   | BLK<br>934<br>/20/2016<br>SPK value<br>10.00  | Tesi<br>R<br>SPK Ref Val<br>Tesi                          | Code: El<br>unNo: 3<br>eqNo: 1<br>%REC<br>105<br>Code: El  | PA Method<br>5006<br>082985<br>LowLimit<br>70<br>PA Method                                       | 8015M/D: Die<br>Units: mg/K<br>HighLimit<br>130<br>8015M/D: Die                                    | g<br>%RPD<br>%RPD                    | e Organics RPDLimit    | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range (<br>Motor Oil Rang<br>Surr: DNOP<br>Sample ID<br>Client ID:  | MB-25934<br>PBS<br>6/20/2016<br>Drganics (DRO)<br>te Organics (MRO)<br>LCS-25934<br>LCSS              | SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>ND<br>10<br>SampTy<br>Batch                          | ype: MI<br>ID: 25<br>ate: 6,<br>PQL<br>10<br>50<br>ype: LC<br>ID: 25                         | BLK<br>934<br>/20/2016<br>SPK value<br>10.00<br>SS<br>934                                   | Tesi<br>R<br>SPK Ref Val<br>Tesi<br>R                     | Code: El<br>lunNo: 3<br>seqNo: 1<br>%REC<br>105<br>Code: El<br>lunNo: 3                              | PA Method<br>5006<br>082985<br>LowLimit<br>70<br>PA Method<br>5006                               | 8015M/D: Die<br>Units: mg/K<br>HighLimit<br>130<br>8015M/D: Die                                    | g<br>%RPD                            | e Organics<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range (<br>Motor Oil Rang<br>Sur: DNOP<br>Sample ID<br>Client ID:<br>Prep Date:                               | MB-25934<br>PBS<br>6/20/2016<br>Drganics (DRO)<br>ne Organics (MRO)<br>LCS-25934<br>LCSS<br>6/20/2016 | SampTy<br>Batch<br>Analysis D<br>Result<br>ND<br>ND<br>10<br>SampTy<br>Batch<br>Analysis D             | ype: MI<br>ID: 25<br>ate: 6/<br>PQL<br>10<br>50<br>ype: LC<br>ID: 25<br>ate: 6/              | BLK<br>934<br>/20/2016<br>SPK value<br>10.00<br>CS<br>934<br>/20/2016                       | Tesi<br>R<br>SPK Ref Val<br>Tesi<br>R<br>S                | Code: El<br>lunNo: 3<br>eqNo: 1<br>%REC<br>105<br>Code: El<br>lunNo: 3<br>eqNo: 1                    | PA Method<br>5006<br>082985<br>LowLimit<br>70<br>PA Method<br>5006<br>082986                     | 8015M/D: Die<br>Units: mg/K<br>HighLimit<br>130<br>8015M/D: Die<br>Units: mg/K                     | g<br>%RPD<br>esel Range              | e Organics<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range (<br>Motor Oil Rang<br>Surr: DNOP<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte                   | MB-25934<br>PBS<br>6/20/2016<br>Drganics (DRO)<br>e Organics (MRO)<br>LCS-25934<br>LCSS<br>6/20/2016  | SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>ND<br>10<br>SampTy<br>Batch<br>Analysis Da<br>Result | ype: MI<br>ID: 25<br>ate: 6/<br>PQL<br>10<br>50<br>ype: LC<br>ID: 25<br>ate: 6/<br>PQL       | BLK<br>934<br>/20/2016<br>SPK value<br>10.00<br>CS<br>934<br>/20/2016<br>SPK value          | Tesi<br>R<br>SPK Ref Val<br>Tesi<br>R<br>SPK Ref Val      | Code: El<br>lunNo: 3<br>ieqNo: 1<br>%REC<br>105<br>Code: El<br>lunNo: 3<br>ieqNo: 1<br>%REC          | PA Method<br>5006<br>082985<br>LowLimit<br>70<br>PA Method<br>5006<br>082986<br>LowLimit         | 8015M/D: Die<br>Units: mg/K<br>HighLimit<br>130<br>8015M/D: Die<br>Units: mg/K<br>HighLimit        | g<br>%RPD<br>vsel Range<br>g<br>%RPD | e Organics<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range (<br>Motor Oil Range<br>Sur: DNOP<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Diesel Range ( | MB-25934<br>PBS<br>6/20/2016<br>Drganics (DRO)<br>te Organics (MRO)<br>LCS-25934<br>LCSS<br>6/20/2016 | SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>ND<br>10<br>SampTy<br>Batch<br>Analysis Da<br>Result | ype: MI<br>ID: 25<br>ate: 6/<br>PQL<br>10<br>50<br>ype: LC<br>ID: 25<br>ate: 6/<br>PQL<br>10 | BLK<br>934<br>/20/2016<br>SPK value<br>10.00<br>2S<br>934<br>/20/2016<br>SPK value<br>50.00 | Tesi<br>R<br>SPK Ref Val<br>Tesi<br>R<br>SPK Ref Val<br>0 | Code: El<br>lunNo: 3<br>GeqNo: 11<br>%REC<br>105<br>Code: El<br>lunNo: 3<br>GeqNo: 11<br>%REC<br>103 | PA Method<br>5006<br>082985<br>LowLimit<br>70<br>PA Method<br>5006<br>082986<br>LowLimit<br>62.6 | 8015M/D: Die<br>Units: mg/K<br>HighLimit<br>130<br>8015M/D: Die<br>Units: mg/K<br>HighLimit<br>124 | g<br>%RPD<br>esel Range<br>g<br>%RPD | e Organics<br>RPDLimit | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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D Sar H Ho ND No

| Client:       | Enterpris         | e Field Ser | vices   | -         |             |           |           |             |           |          |      |
|---------------|-------------------|-------------|---------|-----------|-------------|-----------|-----------|-------------|-----------|----------|------|
| Project:      | MD 161            | nch Trunk F | Cupture | e         |             |           |           |             |           |          |      |
| Sample ID     | MB-25948          | SampTy      | pe: MI  | BLK       | Tes         | tCode: El | PA Method | 8015D: Gaso | line Rang | je       | -    |
| Client ID:    | PBS               | Batch       | ID: 25  | 948       | F           | RunNo: 3  | 5050      |             |           |          |      |
| Prep Date:    | 6/20/2016         | Analysis Da | ate: 6  | 21/2016   | S           | SeqNo: 1  | 084234    | Units: mg/K | g         |          |      |
| Analyte       |                   | Result      | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO) | ND          | 5.0     |           |             |           |           |             |           |          |      |
| Surr: BFB     |                   | 1000        |         | 1000      |             | 102       | 80        | 120         |           |          |      |
| Sample ID     | LCS-25948 C       | SampTy      | pe: LC  | s         | Tes         | tCode: El | PA Method | 8015D: Gaso | line Rang | je       |      |
| Client ID:    | LCSS              | Batch       | ID: 25  | 948       | F           | RunNo: 3  | 5050      |             |           |          |      |
| Prep Date:    |                   | Analysis Da | ate: 6/ | 21/2016   | 5           | SeqNo: 1  | 084235    | Units: mg/K | g         |          |      |
| Analyte       |                   | Result      | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO) | 23          | 5.0     | 25.00     | 0           | 93.3      | 80        | 120         |           |          |      |
| Surr: BFB     |                   | 1000        |         | 1000      |             | 105       | 80        | 120         |           |          |      |
| Sample ID     | 1606A37-001AMS    | SampTy      | pe: MS  | 5         | Tes         | tCode: El | PA Method | 8015D: Gaso | line Rang | je       |      |
| Client ID:    | Source 36.750534  | 4-1 Batch   | ID: 25  | 948       | F           | RunNo: 3  | 5050      |             |           |          |      |
| Prep Date:    | 6/20/2016         | Analysis Da | ate: 6/ | 21/2016   | 5           | SeqNo: 1  | 084236    | Units: mg/K | g         |          |      |
| Analyte       |                   | Result      | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO) | 19          | 4.8     | 24.11     | 0           | 77.2      | 59.3      | 143         |           |          |      |
| Surr: BFB     |                   | 1000        |         | 964.3     |             | 105       | 80        | 120         |           |          |      |
| Sample ID     | 1606A37-001AMS    | D SampTy    | pe: MS  | SD        | Tes         | tCode: El | PA Method | 8015D: Gaso | line Rang | je       |      |
| Client ID:    | Source 36.750534  | I-1 Batch   | ID: 25  | 948       | F           | RunNo: 3  | 5050      |             |           |          |      |
| Prep Date:    | 6/20/2016         | Analysis Da | ate: 6/ | 21/2016   | 5           | SeqNo: 1  | 084238    | Units: mg/K | 9         |          |      |
| Analyte       |                   | Result      | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |

0

78.6

108

59.3

80

143

120

1.51

0

20

0

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Gasoline Range Organics (GRO)

Surr: BFB

18

1000

4.7

23.30

932.0

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

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| Client:             | Enterprise Fi    | eld Servi  | ces          |           |             |          |           |              |      |          |      |
|---------------------|------------------|------------|--------------|-----------|-------------|----------|-----------|--------------|------|----------|------|
| Project:            | MD 16 Inch       | Trunk Ru   | ipture       | •         |             |          |           |              |      |          |      |
| Sample ID MB-2      | 5948             | SampTyp    | e: Ne        | BLK       | Test        |          |           |              |      |          |      |
| Client ID: PBS      |                  | Batch II   | ): <b>25</b> | 948       | R           | unNo: 3  | 5050      |              |      |          |      |
| Prep Date: 6/20     | <b>)/2016</b> An | alysis Dat | e: 6/        | 21/2016   | S           | eqNo: 1  | 084239    | Units: mg/K  | g    |          |      |
| Analyte             | R                | lesult     | PQL          | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene             |                  | ND (       | 0.025        |           |             |          |           |              |      |          |      |
| Toluene             |                  | ND (       | 0.050        |           |             |          |           |              |      |          |      |
| Ethylbenzene        |                  | ND (       | 0.050        |           |             |          |           |              |      |          |      |
| Xylenes, Total      |                  | ND         | 0.10         |           |             |          |           |              |      |          |      |
| Surr: 4-Bromofluoro | benzene          | 1.1        |              | 1.000     |             | 113      | 80        | 120          |      |          |      |
| Sample ID LCS-      | 25948            | SampTyp    | e: LC        | S         | Test        | Code: EF | PA Method | 8021B: Volat | iles |          |      |
| Client ID: LCS      | 6                | Batch II   | ): <b>25</b> | 948       | R           | unNo: 3  | 5050      |              |      |          |      |
| Prep Date: 6/20     | 0/2016 An        | alysis Dat | e: 6/        | 21/2016   | S           | eqNo: 10 | 084240    | Units: mg/K  | g    |          |      |
| Analyte             | R                | esult      | PQL          | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene             |                  | 0.98 (     | 0.025        | 1.000     | 0           | 97.5     | 75.3      | 123          |      |          |      |
| Toluene             |                  | 0.85 (     | 0.050        | 1.000     | 0           | 84.7     | 80        | 124          |      |          |      |
| Ethylbenzene        |                  | 0.83 (     | 0.050        | 1.000     | 0           | 83.3     | 82.8      | 121          |      |          |      |
| Xylenes, Total      |                  | 2.5        | 0.10         | 3.000     | 0           | 83.8     | 83.9      | 122          |      |          | S    |
| Surr: 4-Bromofluoro | benzene          | 1.1        |              | 1.000     |             | 113      | 80        | 120          |      |          |      |

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1606A37

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY                                    | Hall Environmental Albu<br>Albu<br>TEL: 505-345-3975<br>Website: www.hal | Analysis Labord<br>4901 Hawkin<br>querque, NM 8<br>FAX: 505-345-<br>llenvironmental | alory<br>s NE<br>7105 <b>Samp</b><br>4107<br>Leom | ble Log-In C    | heck List            |
|--|--|---|---|-----------------|----------------------|
| Client Name: Enterprise  | Work Order Number:   | 1606A37   |   | RcptNo:         | 1                    |
| Received by/date:<br>Logged By: Lindsay Mangin                                     | DCe/18/16<br>6/18/2016 8:00:00 AM  |   | -<br>July Mago                                    |                 |                      |
| Poviewed By: Linusay manghi  | 22/70/10 0.50.50 MM  |   | 0-3-0   |                 |                      |
| Reviewed by.   | 06/20/16   |   |   |                 |                      |
| Chain of Custody   |  |   |   |                 |                      |
| 1. Custody seals intact on sample bottles  | ?  | Yes 🗋   |   | Not Present     |                      |
| 2. Is Chain of Custody complete?   |  | Yes 🜌   | NO L.J  |                 |                      |
| 3. How was the sample delivered?   |  | <u>Courier</u>  |   |                 |                      |
| Log In   |  |   |   |                 |                      |
| 4. Was an attempt made to cool the sam   | ples?  | Yes   | No 🗍  | NA 🗔            |                      |
|  |  |   |   |                 |                      |
| 5. Were all samples received at a temper   | rature of >0° C to 6.0°C   | Yes   | No 🗌  |                 |                      |
|  |  |   |   |                 |                      |
| 6. Sample(s) in proper container(s)?   |  | Yes 🛃   | No  |                 |                      |
| 7 Sufficient sample volume for indicated   | test(s)?   | Yes   | No 🗌  |                 |                      |
| 8 Are samples (except VOA and ONG) p   | roperly preserved?   | Yes   | No 🗍  |                 |                      |
| 9. Was preservative added to bottles?  |  | Yes   | No 🕢  | NA 🗆            |                      |
|  |  |   |   | _               |                      |
| 10.VOA vials have zero headspace?  |  | Yes   | No 🗆  | No VOA Vials 🛃  |                      |
| 11. Were any sample containers received  | broken?  | Yes 🛛   | No 🛃  | # of preserved  |                      |
| 10-  |  | v 🗖   |   | bottles checked |                      |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custod) | tv)  | Yes I   |   | (<2             | or >12 unless noted) |
| 13 Are matrices correctly identified on Ch   | ain of Custody?  | Yes 🛃   | No 🗆  | Adjusted?       |                      |
| 14. Is it clear what analyses were requested                                       | ed?  | Yes 🛃   | No 🗌  |                 |                      |
| 15. Were all holding times able to be met?   |  | Yes 🛃   | No 🗆  | Checked by:     |                      |
| (If no, notify customer for authorization  | l.)  |   |   |                 |                      |
| Created Handling (if analisable)   |  |   |   |                 |                      |
|  | with the and a O   | ¥ □   |   |                 |                      |
| 16. Was client notified of all discrepancies                                       | with this order?   | Yes 🗀   | NO L.   | NA              |                      |
| Person Notified:   | Date:  |   |   |                 | 1                    |
| By Whom:   | Via:   | eMail   | Phone Fax   | In Person       |                      |
| Regarding:   | ****   | and a second standard a fil   | All south to produce of the t                     |                 | 1                    |
|  |  |   |   |                 | ł                    |
| 17. Additional remarks:  |  |   |   |                 |                      |
| 18. Cooler Information   |  |   | -   |                 |                      |
| Cooler No Temp °C Condition  | Seal Intact Seal No  | Seal Date   | Signed By   |                 |                      |
| 1 1.4 Good   | Yes  |   |   |                 |                      |

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122

| C        | hain     | -of-Cu     | istody F   | Record                   | Turn-Ar    | ound  | Time:            | Next   |   |   |         |              |   |                  |        | -                | /T E  | 20       |      |               | NT  |    |        |
|----------|----------|------------|------------|--------------------------|------------|-------|------------------|--------|---|---|---------|--------------|---|------------------|--------|------------------|-------|----------|------|---------------|-----|----|--------|
| Client:  | Enter    | prise      | Products   |                          | □ Star     | ndard | Rust             | 0      | ay                                      |   |         |              | A                                       | AL<br>N <i>A</i> | LY     | SI               | S L   | A        | 30   | RA            | TO  | R  | r      |
|          | Opera    | iting      |            | :1                       | Project    | Name  | TERK             | mo I   | 6 Inch                                  |   |         |              | v                                       | .ww.l            | naller | viron            | men   | tal.co   | om   |               |     |    |        |
| Mailing  | Address  | 614        | Reilly F   | tue.                     |            |       | Trunk            | · Rupt | ture                                    | 4901 Hawkins NE - Albuquerque, NM 87109 |         |              |   |                  |        |                  |       |          |      |               |     |    |        |
| For      | ming     | ton nu     | m 874      | 0/                       | Project #: |       |                  |        | Tel. 505-345-3975 Fax 505-345-4107      |   |         |              |   |                  |        |                  |       |          |      |               |     |    |        |
| Phone #  | # 50     | 5.50       | 9-228      | 6                        |            |       |                  |        | Analysis Request                        |   |         |              |   |                  |        |                  |       |          |      |               |     |    |        |
| email or | Fax#:    | tilong     | e eprod.   | 000                      | Project    | Mana  | ger:             |        |   | 7                                       | (<br>Ńu | (lasel)      |   |                  |        | ( <sup>†</sup> 0 | S     |          |      |               |     |    |        |
| QA/QC F  | Package: |            |            |                          |            | -     | Thomas           | Long   |   | BO                                      | as c    | ġ            |   |                  |        | 04,8             | CB    |          |      |               |     |    |        |
| Stand    | dard     |            | Level 4 (F | Full Validation)         |            |       |                  |        |   | 1                                       | 9       | Gas          |   |                  | L.     | <sup>2</sup> ,P( | 2 P   |          |      |               |     |    |        |
|          | tation   |            | r          |                          | Sample     | r:    | Ty               | 1      |   | H                                       | 直       | 5B (         | 8.1)                                    | ÷]÷              | Ē      | No.              | 808   |          |      |               |     |    | Î      |
|          |          |            |            |                          | Seminia    | Tem   |                  |        |   | 1                                       | +<br>Ш  | 801          | 141                                     | 20               |        | S S              | les   |          | No A | 2             |     |    | Yor    |
|          | (1900)_  |            |            |                          | CONTRACTO  |       | denne den de des |        |   | I II                                    | ATB     | por          | Ę                                       | t l              |        |                  | stick | OA       | -in  | P             |     |    | ) se   |
| Date     | Time     | Matrix     | Sample     | Request ID               | Conta      | iner  | Preservative     |        | -NC                                     | Ţ                                       | + >     | Met          | (Wei                                    | New Year         |        | E (F             | Pes   | B        | (Se  | h10           |     |    | Iqq    |
|          |          |            | Campio     | i toquoot ib             | Type a     | nd #  | Туре             |        | -7A.5                                   | E E                                     | E       | F            | F                                       | 8                |        | rior 1           | 081   | 260      | 270  | S             |     |    | kir B  |
| -17-16   | .099     | Soil       | Source -   | 30.750534                | 402        | ars   | Cool             |        |   | ₩                                       |         | 5            |   |                  |        |                  | 80    | 8        | 80   | x             | +-  | +  |        |
| 1        | 000      | 30.        | C. 1 3     | 6745408                  |            |       |                  |        |   | $\mathbf{b}$                            |         | V            | +                                       |                  | +      | +                |       |          |      | 50            | +   | +  | +-     |
| 1        | 00-5     |            | 307 -      | 107,951313<br>21 744428. |            |       |                  |        | 1                                       | K                                       |         | C            | -                                       | +                | -      | -                | -     |          |      | 쥐             | +   | +- | ╋      |
| 1        | 0900     |            | 55-9-10    | 7.951291                 |            |       |                  | -0     | 3                                       | H¥.                                     |         | A            | =                                       | -                | +      | -                |       |          |      | X             |     | _  | ╞      |
|          | 900      |            | 56-3-3     | 107.95012                |            |       |                  | -0     | XF                                      | Y                                       |         | X            |   |                  |        |                  |       |          |      | X             |     |    |        |
| 4        | DAIL     |            | SC-4-      | 36749991                 |            | /     | V                | -0     | 05                                      | X                                       |         | $\checkmark$ |   |                  |        |                  |       |          |      | K             |     |    |        |
|          | Ati      | AN         |            |                          |            |       |                  |        |   | ľ                                       |         |              |   |                  |        |                  |       |          |      |               |     |    |        |
|          | Touli    | A B        |            |                          |            |       |                  |        |   |   |         |              |   |                  |        |                  |       |          |      |               |     |    | T      |
|          |          | 13         |            |                          |            |       |                  |        | And |   |         |              |   |                  |        | 1                |       |          |      |               | -   | 1  | $\top$ |
|          |          |            |            |                          |            |       |                  |        |   |   |         |              | +                                       |                  | +      |                  | -     |          |      |               | +   |    | +      |
|          |          | -          |            |                          |            |       |                  |        |   |   |         |              |   |                  | +      | +                | -     |          |      | +             | +   | +  | +      |
|          |          |            |            |                          | ·          |       |                  |        |   | -                                       |         |              | +                                       | +                | +      | -                |       |          |      | -+            | +   | +  | +      |
|          |          |            |            | · · · · · · · · ·        |            |       | · · ·            |        |   |   |         |              | -+                                      | +                | +      | +-               |       |          |      | $\rightarrow$ | +   | +  | +      |
| Date:    | Time:    | Relinquish | ed by      | 0                        | Received   | hy:   | ¥                | Date   | Time                                    | Ren                                     | nark    | s:           |   |                  |        |                  |       | <u> </u> |      | 1             | 1   |    |        |
| #601     | НЬ       |            | Thomas     | Jarg                     |            | dt    | f - 6            | clight | 0900)                                   | 1                                       | A 1/4   | 7            | 50                                      | -1               | , 5    | C-1              | Z(    | C        | DZ.  | +0            | 03) |    |        |
| Date:    | Time:    | Relinquist | ed by:     | 0                        | Received   | by    |                  | Date   | Time                                    | 101                                     |         |              | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Τ.               | 1      |                  | ~     | -        |      |               | -   |    |        |
|          |          |            |            |                          |            | Y     |                  |        |   |   |         | PE           | K                                       | 101              | 1 6    |                  | 5     |          |      |               |     |    |        |
|          |          |            |            |                          |            |       |                  |        |   |   |         | 10           |   | 101              |        | ~~~              | ~,    |          |      |               |     |    |        |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

NAME AND ADDRESS ADDRES

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 29, 2016

Thomas Long Enterprise Field Services 614 Reilly Ave. Farmington, NM 87401 TEL: (505) 599-2141 FAX

RE: Trunk MD 16 Inch

OrderNo.: 1606A36

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/18/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 27, 2016.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services

1606A36-001

Trunk MD 16 Inch

**Project:** 

Lab ID:

# Client Sample ID: Source 36.750534-107.947310 Collection Date: 6/16/2016 8:40:00 PM

Received Date: 6/18/2016 8:00:00 AM

| Analyses                       | Result | PQL     | Qual Units | DF | Date Analyzed        | Batch  |
|--------------------------------|--------|---------|------------|----|----------------------|--------|
| EPA METHOD 7470: MERCURY       |        |         |            |    | Analyst              | pmf    |
| Mercury                        | ND     | 0.00020 | mg/L       | 1  | 6/20/2016 3:48:59 PM | 25939  |
| EPA 6010B: TOTAL RECOVERABLE   | TALS   |         |            |    | Analyst              | MED    |
| Arsenic                        | ND     | 0.020   | mg/L       | 1  | 6/21/2016 8:20:18 AM | 25941  |
| Barium                         | 0.13   | 0.020   | mg/L       | 1  | 6/21/2016 8:20:18 AM | 25941  |
| Cadmium                        | ND     | 0.0020  | mg/L       | 1  | 6/21/2016 8:20:18 AM | 25941  |
| Chromium                       | ND     | 0.0060  | mg/L       | 1  | 6/21/2016 8:20:18 AM | 25941  |
| Lead                           | ND     | 0.0050  | mg/L       | 1  | 6/21/2016 8:20:18 AM | 25941  |
| Selenium                       | ND     | 0.050   | mg/L       | 1  | 6/21/2016 8:20:18 AM | 25941  |
| Silver                         | ND     | 0.0050  | mg/L       | 1  | 6/21/2016 8:20:18 AM | 25941  |
| EPA METHOD 8260B: VOLATILES    |        |         |            |    | Analyst              | BCN    |
| Benzene                        | 3.5    | 1.0     | µa/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Toluene                        | 43     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Ethylbenzene                   | 11     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 1,2,4-Trimethylbenzene         | 26     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 1,3,5-Trimethylbenzene         | 12     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Naphthalene                    | 9.1    | 2.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 1-Methylnaphthalene            | 7.4    | 4.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 2-Methylnaphthalene            | 9.8    | 4.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Acetone                        | ND     | 10      | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Bromobenzene                   | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Bromodichloromethane           | 10     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Bromoform                      | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Bromomethane                   | ND     | 3.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 2-Butanone                     | ND     | 10      | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Carbon disulfide               | ND     | 10      | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Carbon Tetrachloride           | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Chlorobenzene                  | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Chloroethane                   | ND     | 2.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Chloroform                     | 67     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| Chloromethane                  | ND     | 3.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 2-Chlorotoluene                | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 4-Chlorotoluene                | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| cis-1,2-DCE                    | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| cis-1,3-Dichloropropene        | ND     | 1.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0     | µg/L       | 1  | 6/21/2016 5:23:00 PM | R35071 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

\*

D

- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/29/2016

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services Client Sample ID: Source 36.750534-107.947310 **Project:** Trunk MD 16 Inch Collection Date: 6/16/2016 8:40:00 PM Lab ID: 1606A36-001 Matrix: AQUEOUS Received Date: 6/18/2016 8:00:00 AM Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch EPA METHOD 8260B: VOLATILES Analyst: BCN Dibromochloromethane ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 Dibromomethane ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,2-Dichlorobenzene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 ND 1,3-Dichlorobenzene 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,4-Dichlorobenzene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 Dichlorodifluoromethane ND 10 µg/L 1 6/21/2016 5:23:00 PM R35071 ND 1.1-Dichloroethane 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,1-Dichloroethene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,2-Dichloropropane ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,3-Dichloropropane ND 1.0 1 6/21/2016 5:23:00 PM R35071 µg/L 2,2-Dichloropropane ND 2.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,1-Dichloropropene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 ND Hexachlorobutadiene 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 2-Hexanone ND 10 µg/L 1 6/21/2016 5:23:00 PM R35071 Isopropylbenzene 2.6 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 4-Isopropyltoluene ND 10 µg/L 1 6/21/2016 5:23:00 PM R35071 4-Methyl-2-pentanone ND 10 µg/L 1 6/21/2016 5:23:00 PM R35071 Methylene Chloride ND 3.0 µg/L 1 6/21/2016 5:23:00 PM R35071 n-Butylbenzene ND 30 µg/L 1 6/21/2016 5:23:00 PM R35071 n-Propylbenzene 3.1 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 sec-Butylbenzene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 Styrene ND 1.0 6/21/2016 5:23:00 PM µg/L 1 R35071 tert-Butylbenzene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,1,1,2-Tetrachloroethane ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1.1.2.2-Tetrachloroethane ND 2.0 µg/L 6/21/2016 5:23:00 PM 1 R35071 Tetrachloroethene (PCE) ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 trans-1,2-DCE ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 trans-1,3-Dichloropropene ND 1.0 µg/L 6/21/2016 5:23:00 PM 1 R35071 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,1,1-Trichloroethane ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,1,2-Trichloroethane ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 Trichloroethene (TCE) ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 Trichlorofluoromethane ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 1,2,3-Trichloropropane ND 2.0 µg/L 1 6/21/2016 5:23:00 PM R35071 Vinvl chloride ND 1.0 µg/L 1 6/21/2016 5:23:00 PM R35071 Xylenes, Total 120 1.5 µg/L 1 6/21/2016 5:23:00 PM R35071 Surr: 1,2-Dichloroethane-d4 85.8 70-130 %Rec 1 6/21/2016 5:23:00 PM R35071 Surr: 4-Bromofluorobenzene 96.5 70-130 %Rec 1 6/21/2016 5:23:00 PM R35071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| Analytical Report |  |
|-------------------|--|
| Lab Order 1606A36 |  |

#### Date Reported: 6/29/2016

#### **CLIENT:** Enterprise Field Services Client Sample ID: Source 36.750534-107.947310 **Project:** Trunk MD 16 Inch Collection Date: 6/16/2016 8:40:00 PM Lab ID: 1606A36-001 Received Date: 6/18/2016 8:00:00 AM Matrix: AQUEOUS Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch EPA METHOD 8260B: VOLATILES Analyst: BCN Surr: Dibromofluoromethane 93.6 70-130 %Rec 1 6/21/2016 5:23:00 PM R35071 Surr: Toluene-d8 98.6 70-130 %Rec 1 6/21/2016 5:23:00 PM R35071

Hall Environmental Analysis Laboratory, Inc.

|             |    |   |    | A REAL PROPERTY OF A REAL PROPER |
|-------------|----|---|----|--|
| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank  |
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range   |
|             | H  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 3 of 15  |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range   |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit  |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified  |
|             |    |   |    |  |

#### Date Reported: 6/29/2016

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services Client Sample ID: Header ES 480 **Project:** Trunk MD 16 Inch Collection Date: 6/17/2016 12:03:00 PM 1606A36-002 Lab ID: Matrix: AQUEOUS Received Date: 6/18/2016 8:00:00 AM .....

| Analyses                       | Result  | PQL Q   | ual Units | DF | Date Analyzed        | Batch  |
|--------------------------------|---------|---------|-----------|----|----------------------|--------|
| EPA METHOD 7470: MERCURY       |         |         |           |    | Analyst:             | pmf    |
| Mercury                        | 0.00023 | 0.00020 | mg/L      | 1  | 6/20/2016 3:55:06 PM | 25939  |
| EPA 6010B: TOTAL RECOVERABLE   | METALS  |         |           |    | Analyst:             | MED    |
| Arsenic                        | ND      | 0.020   | ma/L      | 1  | 6/21/2016 8:23:51 AM | 25941  |
| Barium                         | 0.060   | 0.020   | mg/L      | 1  | 6/21/2016 8:23:51 AM | 25941  |
| Cadmium                        | ND      | 0.0020  | mg/L      | 1  | 6/21/2016 8:23:51 AM | 25941  |
| Chromium                       | ND      | 0.0060  | mg/L      | 1  | 6/21/2016 8:23:51 AM | 25941  |
| Lead                           | ND      | 0.0050  | mg/L      | 1  | 6/21/2016 8:23:51 AM | 25941  |
| Selenium                       | ND      | 0.050   | mg/L      | 1  | 6/21/2016 8:23:51 AM | 25941  |
| Silver                         | ND      | 0.0050  | mg/L      | 1  | 6/21/2016 8:23:51 AM | 25941  |
| EPA METHOD 8260B: VOLATILES    |         |         |           |    | Analyst:             | BCN    |
| Benzene                        | 7.2     | 1.0     | µa/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Toluene                        | 31      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Ethylbenzene                   | 3.7     | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Methyl tert-butyl ether (MTBE) | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2,4-Trimethylbenzene         | 50      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,3,5-Trimethylbenzene         | 19      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2-Dichloroethane (EDC)       | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2-Dibromoethane (EDB)        | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Naphthalene                    | 23      | 2.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1-Methylnaphthalene            | 8.9     | 4.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 2-Methylnaphthalene            | 12      | 4.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Acetone                        | 50      | 10      | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Bromobenzene                   | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Bromodichloromethane           | 2.7     | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Bromoform                      | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Bromomethane                   | ND      | 3.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 2-Butanone                     | ND      | 10      | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Carbon disulfide               | ND      | 10      | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Carbon Tetrachloride           | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Chlorobenzene                  | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Chloroethane                   | ND      | 2.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Chloroform                     | 24      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Chloromethane                  | ND      | 3.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 2-Chlorotoluene                | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 4-Chlorotoluene                | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| cis-1,2-DCE                    | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| cis-1,3-Dichloropropene        | ND      | 1.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2-Dibromo-3-chloropropane    | ND      | 2.0     | µg/L      | 1  | 6/21/2016 6:34:00 PM | R35071 |

- Qualifiers: \* Value exceeds Maximum Contaminant Level. D
  - Sample Diluted Due to Matrix
  - Н Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 4 of 15 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

**Analytical Report** 

Lab Order 1606A36

Date Reported: 6/29/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

1606A36-002

Project: Lab ID: Trunk MD 16 Inch

#### Client Sample ID: Header ES 480 Collection Date: 6/17/2016 12:03:00 PM Matrix: AQUEOUS Received Date: 6/18/2016 8:00:00 AM

| Analyses                    | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch  |
|-----------------------------|--------|--------|----------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES |        |        |          |    | Analyst              | BCN    |
| Dibromochloromethane        | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Dibromomethane              | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2-Dichlorobenzene         | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,3-Dichlorobenzene         | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,4-Dichlorobenzene         | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Dichlorodifluoromethane     | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,1-Dichloroethane          | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,1-Dichloroethene          | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2-Dichloropropane         | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,3-Dichloropropane         | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 2,2-Dichloropropane         | ND     | 2.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,1-Dichloropropene         | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Hexachlorobutadiene         | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 2-Hexanone                  | ND     | 10     | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Isopropylbenzene            | 2.1    | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 4-Isopropyltoluene          | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 4-Methyl-2-pentanone        | ND     | 10     | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Methylene Chloride          | ND     | 3.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| n-Butylbenzene              | ND     | 3.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| n-Propylbenzene             | 6.8    | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| sec-Butylbenzene            | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Styrene                     | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| tert-Butylbenzene           | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,1,2,2-Tetrachloroethane   | ND     | 2.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Tetrachloroethene (PCE)     | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| trans-1,2-DCE               | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| trans-1,3-Dichloropropene   | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2,3-Trichlorobenzene      | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2,4-Trichlorobenzene      | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,1,1-Trichloroethane       | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,1,2-Trichloroethane       | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Trichloroethene (TCE)       | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Trichlorofluoromethane      | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| 1,2,3-Trichloropropane      | ND     | 2.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Vinyl chloride              | ND     | 1.0    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Xylenes, Total              | 64     | 1.5    | µg/L     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Surr: 1,2-Dichloroethane-d4 | 87.6   | 70-130 | %Rec     | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Surr: 4-Bromofluorobenzene  | 104    | 70-130 | %Rec     | 1  | 6/21/2016 6:34:00 PM | R35071 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

#### Date Reported: 6/29/2016

#### Hall Environmental Analysis Laboratory, Inc. **CLIENT:** Enterprise Field Services Client Sample ID: Header ES 480 **Project:** Trunk MD 16 Inch Collection Date: 6/17/2016 12:03:00 PM Lab ID: 1606A36-002 Matrix: AQUEOUS Received Date: 6/18/2016 8:00:00 AM Analyses Result POL Onal Units DF Date Analyzed

| Analyses                    | Result | PQL Qua | Units | DF | Date Analyzed        | Batch  |
|-----------------------------|--------|---------|-------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES |        |         |       |    | Analyst              | BCN    |
| Surr: Dibromofluoromethane  | 94.2   | 70-130  | %Rec  | 1  | 6/21/2016 6:34:00 PM | R35071 |
| Surr: Toluene-d8            | 97.3   | 70-130  | %Rec  | 1  | 6/21/2016 6:34:00 PM | R35071 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Q | ualifiers: |  |
|---|------------|--|
|   |            |  |

\*

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 15 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

**Analytical Report** 

#### Lab Order 1606A36

Date Reported: 6/29/2016

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Enterprise Field Services
 Client Sample ID: Header ES 571

 Project:
 Trunk MD 16 Inch
 Collection Date: 6/17/2016 11:39:00 AM

 Lab ID:
 1606A36-003
 Matrix: AQUEOUS
 Received Date: 6/18/2016 8:00:00 AM

| Analyses                       | Result | PQL Q   | ual Units | DF | Date Analyzed        | Batch  |
|--------------------------------|--------|---------|-----------|----|----------------------|--------|
| EPA METHOD 7470: MERCURY       |        |         |           |    | Analyst              | pmf    |
| Mercury                        | ND     | 0.00020 | mg/L      | 1  | 6/20/2016 3:57:08 PM | 25939  |
| EPA 6010B: TOTAL RECOVERABLE   | METALS |         |           |    | Analyst              | MED    |
| Arsenic                        | ND     | 0.020   | mg/L      | 1  | 6/21/2016 8:25:02 AM | 25941  |
| Barium                         | 0.090  | 0.020   | mg/L      | 1  | 6/21/2016 8:25:02 AM | 25941  |
| Cadmium                        | ND     | 0.0020  | mg/L      | 1  | 6/21/2016 8:25:02 AM | 25941  |
| Chromium                       | ND     | 0.0060  | mg/L      | 1  | 6/21/2016 8:25:02 AM | 25941  |
| Lead                           | ND     | 0.0050  | mg/L      | 1  | 6/21/2016 8:25:02 AM | 25941  |
| Selenium                       | ND     | 0.050   | mg/L      | 1  | 6/21/2016 8:25:02 AM | 25941  |
| Silver                         | ND     | 0.0050  | mg/L      | 1  | 6/21/2016 8:25:02 AM | 25941  |
| EPA METHOD 8260B: VOLATILES    |        |         |           |    | Analyst              | BCN    |
| Benzene                        | 16     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Toluene                        | 58     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Ethylbenzene                   | 5.6    | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 1,2,4-Trimethylbenzene         | 25     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 1,3,5-Trimethylbenzene         | 9.3    | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Naphthalene                    | 10     | 2.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 1-Methylnaphthalene            | ND     | 4.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 2-Methylnaphthalene            | 4.5    | 4.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Acetone                        | ND     | 10      | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Bromobenzene                   | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Bromodichloromethane           | 4.8    | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Bromoform                      | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Bromomethane                   | ND     | 3.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 2-Butanone                     | ND     | 10      | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Carbon disulfide               | ND     | 10      | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Carbon Tetrachloride           | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Chlorobenzene                  | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Chloroethane                   | ND     | 2.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Chloroform                     | 19     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| Chloromethane                  | ND     | 3.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 2-Chlorotoluene                | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 4-Chlorotoluene                | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| cis-1,2-DCE                    | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| cis-1,3-Dichloropropene        | ND     | 1.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0     | µg/L      | 1  | 6/21/2016 6:58:00 PM | R35071 |

- Qualifiers: \*
  - Value exceeds Maximum Contaminant Level.
     D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** 

Lab Order 1606A36

Date Reported: 6/29/2016

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services Client Sample ID: Header ES 571 **Project:** Trunk MD 16 Inch Collection Date: 6/17/2016 11:39:00 AM Received Date: 6/18/2016 8:00:00 AM Matrix: AQUEOUS Lab ID: 1606A36-003 Result **PQL Qual Units DF** Date Analyzed Batch Analyses EPA METHOD 8260B: VOLATILES Analyst: BCN Dibromochloromethane ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 Dibromomethane ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 ND µg/L 6/21/2016 6:58:00 PM R35071 1,2-Dichlorobenzene 1.0 1 ND 1.0 µg/L 6/21/2016 6:58:00 PM R35071 1,3-Dichlorobenzene 1 ND 1.0 6/21/2016 6:58:00 PM R35071 1.4-Dichlorobenzene µg/L 1 ND Dichlorodifluoromethane 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 ND 6/21/2016 6:58:00 PM R35071 1.1-Dichloroethane 1.0 µg/L 1 ND 1.0 1.1-Dichloroethene µg/L 1 6/21/2016 6:58:00 PM R35071 ND 1,2-Dichloropropane 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 1,3-Dichloropropane ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 2,2-Dichloropropane ND 20 µg/L 1 6/21/2016 6:58:00 PM R35071 1,1-Dichloropropene ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 Hexachlorobutadiene ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 ND µg/L 2-Hexanone 10 1 6/21/2016 6:58:00 PM R35071 Isopropylbenzene 1.8 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 4-Isopropyltoluene ND 1.0 1 6/21/2016 6:58:00 PM R35071 µg/L 4-Methyl-2-pentanone ND 10 1 6/21/2016 6:58:00 PM R35071 µg/L Methylene Chloride ND 3.0 µg/L 1 6/21/2016 6:58:00 PM R35071 n-Butvlbenzene ND 3.0 1 6/21/2016 6:58:00 PM R35071 µg/L n-Propylbenzene 4.3 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 sec-Butylbenzene ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 Styrene ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 tert-Butylbenzene ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 1,1,1,2-Tetrachloroethane ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 1,1,2,2-Tetrachloroethane ND 2.0 µg/L 1 6/21/2016 6:58:00 PM R35071 ND Tetrachloroethene (PCE) 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 trans-1,2-DCE ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 ND trans-1,3-Dichloropropene 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 1,1,1-Trichloroethane ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 ND 1,1,2-Trichloroethane 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 Trichloroethene (TCE) ND 1.0 6/21/2016 6:58:00 PM µg/L 1 R35071 Trichlorofluoromethane ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 ND 1,2,3-Trichloropropane 2.0 µg/L 1 6/21/2016 6:58:00 PM R35071 Vinyl chloride ND 1.0 µg/L 1 6/21/2016 6:58:00 PM R35071 Xylenes, Total 80 1.5 µg/L 1 6/21/2016 6:58:00 PM R35071 Surr: 1,2-Dichloroethane-d4 86.3 70-130 %Rec 6/21/2016 6:58:00 PM 1 R35071 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 6/21/2016 6:58:00 PM R35071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers: \* Value exceeds Maximum Contaminant Level.
  - D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

#### Date Reported: 6/29/2016

# CLIENT: Enterprise Field Services Client Sample ID: Header ES 571 Project: Trunk MD 16 Inch Collection Date: 6/17/2016 11:39:00 AM Lab ID: 1606A36-003 Matrix: AQUEOUS Received Date: 6/18/2016 8:00:00 AM Analyses Result PQL Qual Units DF Date Analyzed Batch

Hall Environmental Analysis Laboratory, Inc.

|                             |      |        |      |   | 2                    |        |
|-----------------------------|------|--------|------|---|----------------------|--------|
| EPA METHOD 8260B: VOLATILES |      |        |      |   | Analys               | : BCN  |
| Surr: Dibromofluoromethane  | 94.0 | 70-130 | %Rec | 1 | 6/21/2016 6:58:00 PM | R35071 |
| Surr: Toluene-d8            | 97.7 | 70-130 | %Rec | 1 | 6/21/2016 6:58:00 PM | R35071 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 9 of 15   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

#### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID tune 6               | SampT      | ype: MI | BLK       | TestCode: EPA Method 8260B: VOLATILES |        |          |             |      |          |      |
|--------------------------------|------------|---------|-----------|---------------------------------------|--------|----------|-------------|------|----------|------|
| Client ID: PBW                 | Batch      | D: R3   | 5071      | F                                     | RunNo: | 35071    |             |      |          |      |
| Prep Date:                     | Analysis D | ate: 6  | 21/2016   | 5                                     | SeqNo: | 1084527  | Units: µg/L |      |          |      |
| Analyte                        | Result     | PQL     | SPK value | SPK Ref Val                           | %REC   | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Benzene                        | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Toluene                        | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Ethylbenzene                   | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,2,4-Trimethylbenzene         | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,3,5-Trimethylbenzene         | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Naphthalene                    | ND         | 2.0     |           |                                       |        |          |             |      |          |      |
| 1-Methylnaphthalene            | ND         | 4.0     |           |                                       |        |          |             |      |          |      |
| 2-Methylnaphthalene            | ND         | 4.0     |           |                                       |        |          |             |      |          |      |
| Acetone                        | ND         | 10      |           |                                       |        |          |             |      |          |      |
| Bromobenzene                   | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Bromodichloromethane           | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Bromoform                      | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Bromomethane                   | ND         | 3.0     |           |                                       |        |          |             |      |          |      |
| 2-Butanone                     | ND         | 10      |           |                                       |        |          |             |      |          |      |
| Carbon disulfide               | ND         | 10      |           |                                       |        |          |             |      |          |      |
| Carbon Tetrachloride           | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Chlorobenzene                  | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Chloroethane                   | ND         | 2.0     |           |                                       |        |          |             |      |          |      |
| Chloroform                     | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Chloromethane                  | ND         | 3.0     |           |                                       |        |          |             |      |          |      |
| 2-Chlorotoluene                | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 4-Chlorotoluene                | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| cis-1,2-DCE                    | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| cis-1,3-Dichloropropene        | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND         | 2.0     |           |                                       |        |          |             |      |          |      |
| Dibromochloromethane           | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Dibromomethane                 | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,2-Dichlorobenzene            | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,3-Dichlorobenzene            | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,4-Dichlorobenzene            | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| Dichlorodifluoromethane        | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,1-Dichloroethane             | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,1-Dichloroethene             | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,2-Dichloropropane            | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 1,3-Dichloropropane            | ND         | 1.0     |           |                                       |        |          |             |      |          |      |
| 2,2-Dichloropropane            | ND         | 2.0     |           |                                       |        |          |             |      |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1606A36

#### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID tune 6            | SampT      | ype: ME  | BLK       | Test        | Code: EF | PA Method | 8260B: VOL  | ATILES |          |      |
|-----------------------------|------------|--|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW              | Batch      | ID: R3   | 5071      | R           | unNo: 3  | 5071      |             |        |          |      |
| Prep Date:                  | Analysis D | ate: 6/  | 21/2016   | S           | eqNo: 1  | 084527    | Units: µg/L |        |          |      |
|                             |            | DOI  |           |             | 20000    | 1         |             | A/ DDD | DDDU     | Qual |
| Analyte                     | Result     | PQL  | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| 1,1-Dichloropropene         | ND         | 1.0  |           |             |          |           |             |        |          |      |
| Hexachlorobutadiene         | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 2-Hexanone                  | ND         | 10   |           |             |          |           |             |        |          |      |
| Isopropylbenzene            | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 4-Isopropyltoluene          | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 4-Methyl-2-pentanone        | ND         | 10   |           |             |          |           |             |        |          |      |
| Methylene Chloride          | ND         | 3.0  |           |             |          |           |             |        |          |      |
| n-Butylbenzene              | ND         | 3.0  |           |             |          |           |             |        |          |      |
| n-Propylbenzene             | ND         | 1.0  |           |             |          |           |             |        |          |      |
| sec-Butylbenzene            | ND         | 1.0  |           |             |          |           |             |        |          |      |
| Styrene                     | ND         | 1.0  |           |             |          |           |             |        |          |      |
| tert-Butylbenzene           | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 1,1,1,2-Tetrachloroethane   | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 1,1,2,2-Tetrachloroethane   | ND         | 2.0  |           |             |          |           |             |        |          |      |
| Tetrachloroethene (PCE)     | ND         | 1.0  |           |             |          |           |             |        |          |      |
| trans-1,2-DCE               | ND         | 1.0  |           |             |          |           |             |        |          |      |
| trans-1,3-Dichloropropene   | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 1,2,3-Trichlorobenzene      | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 1,2,4-Trichlorobenzene      | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 1,1,1-Trichloroethane       | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 1,1,2-Trichloroethane       | ND         | 1.0  |           |             |          |           |             |        |          |      |
| Trichloroethene (TCE)       | ND         | 1.0  |           |             |          |           |             |        |          |      |
| Trichlorofluoromethane      | ND         | 1.0  |           |             |          |           |             |        |          |      |
| 1,2,3-Trichloropropane      | ND         | 2.0  |           |             |          |           |             |        |          |      |
| Vinyl chloride              | ND         | 1.0  |           |             |          |           |             |        |          |      |
| Xylenes, Total              | ND         | 1.5  |           |             |          |           |             |        |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.0        |  | 10.00     |             | 89.9     | 70        | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene  | 10         |  | 10.00     |             | 102      | 70        | 130         |        |          |      |
| Surr: Dibromofluoromethane  | 9.4        |  | 10.00     |             | 94.4     | 70        | 130         |        |          |      |
| Surr: Toluene-d8            | 9.9        |  | 10.00     |             | 99.4     | 70        | 130         |        |          |      |
| Sample ID 1606a36-001ams    | SampT      | SampType: MS TestCode: EPA Method 8260B: VOLATILES |           |             |          |           |             |        |          |      |

| Cumpic ib     | rooduoo-oo rams    | oumpri      | pc. mc        | ·         | 103         |          | Amoulou  | 02000. 101  | TILLO |          |      |  |
|---------------|--------------------|-------------|---------------|-----------|-------------|----------|----------|-------------|-------|----------|------|--|
| Client ID:    | Source 36.750534-1 | Batch       | ID: <b>R3</b> | 5071      | R           | RunNo: 3 | 5071     |             |       |          |      |  |
| Prep Date:    |                    | Analysis Da | ate: 6/       | 21/2016   | S           | SeqNo: 1 | 084538   | Units: µg/L |       |          |      |  |
| Analyte       |                    | Result      | PQL           | SPK value | SPK Ref Val | %REC     | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |  |
| Benzene       |                    | 23          | 1.0           | 20.00     | 3.962       | 97.6     | 70       | 130         |       |          |      |  |
| Toluene       |                    | 63          | 1.0           | 20.00     | 46.34       | 81.3     | 70       | 130         |       |          |      |  |
| Chlorobenzene | )                  | 21          | 1.0           | 20.00     | 0           | 103      | 70       | 130         |       |          |      |  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1606A36

| QC   | SUMMARY      | <b>REPOR</b> | Г           |      |
|------|--------------|--------------|-------------|------|
| Hall | Environmenta | l Analysis   | Laboratory, | Inc. |

#### **Enterprise Field Services Client:**

Trunk MD 16 Inch **Project:** 

|                             |            |          |           |             |           | the second s |             |        |          |      |
|-----------------------------|------------|----------|-----------|-------------|-----------|--|-------------|--------|----------|------|
| Sample ID 1606a36-001ams    | Samp       | Type: MS | 3         | Tes         | tCode: E  | PA Method  | 8260B: VOL  | ATILES |          |      |
| Client ID: Source 36.750534 | -1 Batc    | h ID: R3 | 5071      | F           | RunNo: 3  | 5071   |             |        |          |      |
| Prep Date:                  | Analysis [ | Date: 6/ | 21/2016   | 5           | SeqNo: 1  | 084538   | Units: µg/L |        |          |      |
| Analyte                     | Result     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit   | HighLimit   | %RPD   | RPDLimit | Qual |
| 1,1-Dichloroethene          | 20         | 1.0      | 20.00     | 0           | 101       | 70   | 130         |        |          |      |
| Trichloroethene (TCE)       | 20         | 1.0      | 20.00     | 0           | 101       | 70   | 130         |        |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.9        |          | 10.00     |             | 88.7      | 70   | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene  | 9.9        |          | 10.00     |             | 99.4      | 70   | 130         |        |          |      |
| Surr: Dibromofluoromethane  | 9.4        |          | 10.00     |             | 93.9      | 70   | 130         |        |          |      |
| Surr: Toluene-d8            | 10         |          | 10.00     |             | 99.7      | 70   | 130         |        |          |      |
| Sample ID 1606a36-001amsd   | Samp       | Гуре: МS | SD        | Tes         | tCode: E  | PA Method  | 8260B: VOL  | ATILES |          |      |
| Client ID: Source 36.750534 | -1 Batc    | h ID: R3 | 5071      | F           | RunNo: 3  | 5071   |             |        |          |      |
| Prep Date:                  | Analysis D | Date: 6/ | 21/2016   | S           | SeqNo: 1  | 084539   | Units: µg/L |        |          |      |
| Analyte                     | Result     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit   | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                     | 24         | 1.0      | 20.00     | 3.962       | 98.2      | 70   | 130         | 0.467  | 20       |      |
| Toluene                     | 61         | 1.0      | 20.00     | 46.34       | 74.8      | 70   | 130         | 2.09   | 20       |      |
| Chlorobenzene               | 20         | 1.0      | 20.00     | 0           | 101       | 70   | 130         | 2.01   | 20       |      |
| 1,1-Dichloroethene          | 19         | 1.0      | 20.00     | 0           | 93.7      | 70   | 130         | 7.96   | 20       |      |
| Trichloroethene (TCE)       | 19         | 1.0      | 20.00     | 0           | 95.9      | 70   | 130         | 5.55   | 20       |      |
| Surr: 1,2-Dichloroethane-d4 | 8.8        |          | 10.00     |             | 88.3      | 70   | 130         | 0      | 0        |      |
| Surr: 4-Bromofluorobenzene  | 10         |          | 10.00     |             | 102       | 70   | 130         | 0      | 0        |      |
| Surr: Dibromofluoromethane  | 9.5        |          | 10.00     |             | 95.3      | 70   | 130         | 0      | 0        |      |
| Surr: Toluene-d8            | 9.7        |          | 10.00     |             | 97.0      | 70   | 130         | 0      | 0        |      |
| Sample ID 100ng Ics         | SampT      | Гуре: LC | S         | Tes         | tCode: El | PA Method  | 8260B: VOL  | ATILES |          |      |
| Client ID: LCSW             | Batcl      | h ID: R3 | 5071      | F           | RunNo: 3  | 5071   |             |        |          |      |
| Prep Date:                  | Analysis D | Date: 6/ | 21/2016   | 5           | SeqNo: 1  | 084542   | Units: µg/L |        |          |      |
| Analyte                     | Result     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit   | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                     | 21         | 1.0      | 20.00     | 0           | 103       | 70   | 130         |        |          |      |
| Toluene                     | 20         | 1.0      | 20.00     | 0           | 102       | 70   | 130         |        |          |      |
| Chlorobenzene               | 21         | 1.0      | 20.00     | 0           | 104       | 70   | 130         |        |          |      |
| 1,1-Dichloroethene          | 19         | 1.0      | 20.00     | 0           | 96.1      | 70   | 130         |        |          |      |
| Trichloroethene (TCE)       | 20         | 1.0      | 20.00     | 0           | 102       | 70   | 130         |        |          |      |
| Surr: 1,2-Dichloroethane-d4 | 8.7        |          | 10.00     |             | 86.9      | 70   | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene  | 9.9        |          | 10.00     |             | 98.9      | 70   | 130         |        |          |      |
| Surr: Dibromofluoromethane  | 9.6        |          | 10.00     |             | 96.0      | 70   | 130         |        |          |      |
| Surr: Toluene-d8            | 9.6        |          | 10.00     |             | 95.8      | 70   | 130         |        |          |      |

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

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Sample pH Not In Range

Р

- RL **Reporting Detection Limit** W
  - Sample container temperature is out of limit as specified

WO#: 1606A36

# QC SUMMARY REPORT

| Client:<br>Project: | Enterpris<br>Trunk M | e Field Se<br>D 16 Inch | rvices  |           |             |          |           |               |       |          |      |
|---------------------|----------------------|-------------------------|---------|-----------|-------------|----------|-----------|---------------|-------|----------|------|
| Sample ID           | MB-25939             | Samp                    | Гуре: N | BLK       | Test        | tCode: E | PA Method | 7470: Mercury | 1     |          | ,    |
| Client ID:          | PBW                  | Batc                    | h ID: 2 | 5939      | R           | anNo: 3  | 5037      |               |       |          |      |
| Prep Date:          | 6/20/2016            | Analysis [              | Date: ( | 6/20/2016 | S           | eqNo: 1  | 083381    | Units: mg/L   |       |          |      |
| Analyte             |                      | Result                  | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit     | %RPD  | RPDLimit | Qual |
| Mercury             |                      | ND                      | 0.00020 | 0         |             |          |           |               |       |          |      |
| Sample ID           | LCS-25939            | Samp                    | Type: L | cs        | Test        | Code: E  | PA Method | 7470: Mercury | /     |          |      |
| Client ID:          | LCSW                 | Batc                    | h ID: 2 | 5939      | R           | aunNo: 3 | 5037      |               |       |          |      |
| Prep Date:          | 6/20/2016            | Analysis [              | Date: ( | 6/20/2016 | s           | eqNo: 1  | 083382    | Units: mg/L   |       |          |      |
| Analyte             |                      | Result                  | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit     | %RPD  | RPDLimit | Qual |
| Mercury             |                      | 0.0048                  | 0.00020 | 0.005000  | 0           | 96.3     | 80        | 120           |       |          |      |
| Sample ID           | 1606A36-001BMS       | Samp                    | Гуре: М | IS        | Test        | Code: E  | PA Method | 7470: Mercury | 1     |          |      |
| Client ID:          | Source 36.750534     | -1 Batc                 | h ID: 2 | 5939      | R           | unNo: 3  | 5037      |               |       |          |      |
| Prep Date:          | 6/20/2016            | Analysis [              | Date: 6 | 6/20/2016 | S           | eqNo: 1  | 083384    | Units: mg/L   |       |          |      |
| Analyte             |                      | Result                  | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit     | %RPD  | RPDLimit | Qual |
| Mercury             |                      | 0.0050                  | 0.00020 | 0.005000  | 0           | 100      | 75        | 125           |       |          |      |
| Sample ID           | 1606A36-001BMS       | D SampT                 | Гуре: М | ISD       | Test        | Code: E  | PA Method | 7470: Mercury | ,     |          |      |
| Client ID:          | Source 36.750534     | -1 Batc                 | h ID: 2 | 5939      | R           | unNo: 3  | 5037      |               |       |          |      |
| Prep Date:          | 6/20/2016            | Analysis [              | Date: 6 | 6/20/2016 | S           | eqNo: 1  | 083385    | Units: mg/L   |       |          |      |
| Analyte             |                      | Result                  | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit     | %RPD  | RPDLimit | Qual |
| Mercury             |                      | 0.0050                  | 0 00020 | 0.005000  | 0           | 99.5     | 75        | 125           | 0 754 | 20       |      |

# Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 13 of 15

- P Sample pH Not In Range RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1606A36

| Client:    | Enterprise<br>Travels M | e Field S | ervices   |           |             |           |           |               |            |          |      |
|------------|-------------------------|-----------|-----------|-----------|-------------|-----------|-----------|---------------|------------|----------|------|
| Project:   | I runk M                | J 16 Inci | 1         |           |             |           |           |               |            |          |      |
| Sample ID  | MB-25941                | Samp      | Type: MI  | BLK       | Tes         | stCode: E | PA 6010B: | Total Recove  | rable Met  | als      |      |
| Client ID: | PBW                     | Bat       | ch ID: 25 | 941       | F           | RunNo: 3  | 5033      |               |            |          |      |
| Prep Date: | 6/20/2016               | Analysis  | Date: 6   | 21/2016   | :           | SeqNo: 1  | 083100    | Units: mg/L   |            |          |      |
| Analyte    |                         | Result    | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit     | %RPD       | RPDLimit | Qual |
| Arsenic    |                         | ND        | 0.020     |           |             |           |           |               |            |          |      |
| Barium     |                         | ND        | 0.020     |           |             |           |           |               |            |          |      |
| Cadmium    |                         | ND        | 0.0020    |           |             |           |           |               |            |          |      |
| Chromium   |                         | ND        | 0.0060    |           |             |           |           |               |            |          |      |
| Lead       |                         | ND        | 0.0050    |           |             |           |           |               |            |          |      |
| Selenium   |                         | ND        | 0.050     |           |             |           |           |               |            |          |      |
| Silver     |                         | ND        | 0.0050    |           |             |           |           |               |            |          |      |
| Sample ID  | LCS-25941               | Samp      | Type: LC  | s         | Tes         | tCode: E  | PA 6010B: | Total Recover | rable Met  | als      |      |
| Client ID: | LCSW                    | Bat       | ch ID: 25 | 941       | F           | RunNo: 3  | 5033      |               |            |          |      |
| Prep Date: | 6/20/2016               | Analysis  | Date: 6   | 21/2016   | 5           | SeqNo: 1  | 083101    | Units: mg/L   |            |          |      |
| Analyte    |                         | Result    | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit     | %RPD       | RPDLimit | Qual |
| Arsenic    |                         | 0.50      | 0.020     | 0.5000    | 0           | 101       | 80        | 120           |            |          |      |
| Barium     |                         | 0.49      | 0.020     | 0.5000    | 0           | 98.3      | 80        | 120           |            |          |      |
| Cadmium    |                         | 0.49      | 0.0020    | 0.5000    | 0           | 98.9      | 80        | 120           |            |          |      |
| Chromium   |                         | 0.49      | 0.0060    | 0.5000    | 0           | 98.7      | 80        | 120           |            |          |      |
| Lead       |                         | 0.49      | 0.0050    | 0.5000    | 0           | 98.4      | 80        | 120           |            |          |      |
| Selenium   |                         | 0.51      | 0.050     | 0.5000    | 0           | 103       | 80        | 120           |            |          |      |
| Silver     |                         | 0.10      | 0.0050    | 0.1000    | 0           | 99.6      | 80        | 120           |            |          |      |
| Sample ID  | 1606A36-001BMS          | Samp      | Type: MS  | 8         | Tes         | tCode: E  | PA 6010B: | Total Recover | rable Meta | als      |      |
| Client ID: | Source 36.750534        | -1 Bate   | ch ID: 25 | 941       | F           | RunNo: 3  | 5033      |               |            |          |      |
| Prep Date: | 6/20/2016               | Analysis  | Date: 6/  | 21/2016   | 5           | SeqNo: 1  | 083104    | Units: mg/L   |            |          |      |
| Analyte    |                         | Result    | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit     | %RPD       | RPDLimit | Qual |
| Arsenic    |                         | 0.52      | 0.020     | 0.5000    | 0           | 104       | 75        | 125           |            |          |      |
| Barium     |                         | 0.62      | 0.020     | 0.5000    | 0.1331      | 96.6      | 75        | 125           |            |          |      |
| Cadmium    |                         | 0.49      | 0.0020    | 0.5000    | 0           | 97.3      | 75        | 125           |            |          |      |
| Chromium   |                         | 0.48      | 0.0060    | 0.5000    | 0.003980    | 95.4      | 75        | 125           |            |          |      |
| Lead       |                         | 0.48      | 0.0050    | 0.5000    | 0           | 95.3      | 75        | 125           |            |          |      |
| Selenium   |                         | 0.00      | 0.050     | 0.5000    | 0           | 99.9      | 75        | 125           |            |          |      |
|            |                         | 0.000     | 0.0000    | 0.1000    | 0           | 30.0      | 15        | 125           |            |          |      |
| Sample ID  | 1606A36-001BMS          | D Samp    | Type: MS  | SD        | Tes         | tCode: E  | PA 6010B: | Total Recover | able Meta  | als      |      |
| Client ID: | Source 36.750534        | -1 Bate   | ch ID: 25 | 941       | F           | RunNo: 3  | 5033      |               |            |          |      |
| Prep Date: | 6/20/2016               | Analysis  | Date: 6/  | 21/2016   | 5           | SeqNo: 1  | 083105    | Units: mg/L   |            |          |      |
| Analyte    |                         | Result    | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit     | %RPD       | RPDLimit | Qual |
| Arsenic    |                         | 0.52      | 0.020     | 0.5000    | 0           | 104       | 75        | 125           | 0.110      | 20       |      |
| Qualifiers |                         |           |           |           |             |           |           |               |            |          |      |

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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WO#: 1606A36

#### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID  | 1606A36-001BMS   | D Samp     | Type: MS | SD .      | Tes         | tCode: E | PA 6010B: | Total Recove | rable Meta | als      |      |
|------------|------------------|------------|----------|-----------|-------------|----------|-----------|--------------|------------|----------|------|
| Client ID: | Source 36.750534 | -1 Bato    | h ID: 25 | 941       | R           | RunNo: 3 | 5033      |              |            |          |      |
| Prep Date: | 6/20/2016        | Analysis I | Date: 6/ | 21/2016   | S           | SeqNo: 1 | 083105    | Units: mg/L  |            |          |      |
| Analyte    |                  | Result     | PQL      | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |
| Barium     |                  | 0.60       | 0.020    | 0.5000    | 0.1331      | 94.2     | 75        | 125          | 1.93       | 20       |      |
| Cadmium    |                  | 0.49       | 0.0020   | 0.5000    | 0           | 97.4     | 75        | 125          | 0.0801     | 20       |      |
| Chromium   |                  | 0.48       | 0.0060   | 0.5000    | 0.003980    | 95.7     | 75        | 125          | 0.330      | 20       |      |
| Lead       |                  | 0.48       | 0.0050   | 0.5000    | 0           | 95.6     | 75        | 125          | 0.340      | 20       |      |
| Selenium   |                  | 0.52       | 0.050    | 0.5000    | 0           | 103      | 75        | 125          | 3.42       | 20       |      |
| Silver     |                  | 0.098      | 0.0050   | 0.1000    | 0           | 97.6     | 75        | 125          | 1.07       | 20       |      |

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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1606A36 29-Jun-16

WO#: 1606A36

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY | Hall Environ<br>TEL: 505-34<br>Website: | nmental Analysis<br>4901<br>Albuquerque<br>45-3975 FAX: 50<br>www.hallenviron | Laboratory<br>Hawkins NE<br>, NM 87105<br>5-345-4107<br>mental.com | Sample Log-In Check List |                                   |                  |  |  |  |  |  |  |
|---|---|---|--|--------------------------|-----------------------------------|------------------|--|--|--|--|--|--|
| Client Name: Enterprise                         | Work Order N                            | lumber: 1606A   | 36   |                          | RcptNo:                           | 1                |  |  |  |  |  |  |
| Received by/date:<br>Logged By: Lindsay Mangin  | 0 G 18<br>6/18/2016 8:00:               | ( Lo<br>00 AM   | C  | <del>July Mago</del>     |                                   | ·                |  |  |  |  |  |  |
| Completed By: Lindsay Mangin                    | 6/18/2016 8:43:                         | 53 AM   | (  | + Mago                   |                                   |                  |  |  |  |  |  |  |
| Reviewed By:                                    | nG/zo/                                  | 16  | V  |                          |                                   | i                |  |  |  |  |  |  |
| Chain of Custody                                | 047 7.                                  |   |  |                          |                                   |                  |  |  |  |  |  |  |
| 1. Custody seals intact on sample               | ootties?                                | Yes   |  | No 🗌                     | Not Present                       |                  |  |  |  |  |  |  |
| 2. Is Chain of Custody complete?                |   | Yes   |  | No 🗆                     | Not Present                       |                  |  |  |  |  |  |  |
| 3. How was the sample delivered?                |   | Courie  | <u>er</u>  |                          |                                   |                  |  |  |  |  |  |  |
| Log In  |   |   |  |                          |                                   |                  |  |  |  |  |  |  |
| 4. Was an attempt made to cool th               | e samples?                              | Yes   |  | No 🗌                     | NA 🗆                              |                  |  |  |  |  |  |  |
| 5. Were all samples received at a t             | emperature of >0° C to 6.0°             | C Yes   |  | No 🗌                     | NA 🗆                              |                  |  |  |  |  |  |  |
| 6. Sample(s) in proper container(s)             | ?                                       | Yes   |  | No 🗆                     |                                   |                  |  |  |  |  |  |  |
| 7. Sufficient sample volume for ind             | cated test(s)?                          | Yes   |  | No 🗆                     |                                   |                  |  |  |  |  |  |  |
| 8. Are samples (except VOA and C                | NG) properly preserved?                 | Yes   |  | No 🗌                     |                                   |                  |  |  |  |  |  |  |
| 9. Was preservative added to bottle             | es?                                     | Yes   |  | No 🛃                     | NA 🗔                              |                  |  |  |  |  |  |  |
| 10.VOA vials have zero headspace                | ?                                       | Yes   |  | No 🗆                     | No VOA Vials                      |                  |  |  |  |  |  |  |
| 11. Were any sample containers rec              | broken?                                 | Yes   |  | No 🛃                     | # of preserved<br>bottles checked |                  |  |  |  |  |  |  |
| 12. Does paperwork match bottle lai             | bels?                                   | Yes   |  | No 🗆                     | for pH:                           | (beter cooley 12 |  |  |  |  |  |  |
| (Note discrepancies on chain of                 | custody)<br>on Chain of Custody?        | Vee   |  | No [7]                   | Adjusted?                         |                  |  |  |  |  |  |  |
| 14 is it clear what analyses were re            | quested?                                | Yes   |  |                          |                                   |                  |  |  |  |  |  |  |
| 15. Were all holding times able to be           | e met?                                  | Yes   |  | No 🗆                     | Checked by:                       |                  |  |  |  |  |  |  |
| (if no, noury customer for author               | Ne)                                     |   |  |                          |                                   |                  |  |  |  |  |  |  |
| 16. Was client notified of all discrepa         | ancies with this order?                 | Yes   |  | No 🗌                     | NA 🛃                              |                  |  |  |  |  |  |  |
| Person Notified:                                |   | Date:   |  |                          |                                   |                  |  |  |  |  |  |  |
| By Whom:  |   | Via: 📋 eMa  | I 🗌 Pho  | ne 🗌 Fax                 | In Person                         | 1                |  |  |  |  |  |  |
| Regarding:                                      |   |   |  |                          |                                   |                  |  |  |  |  |  |  |
| Client Instructions:                            |   |   |  |                          |                                   | 1                |  |  |  |  |  |  |
| 17. Additional remarks:                         |   |   |  |                          |                                   |                  |  |  |  |  |  |  |
| 18. Cooler Information                          | dition   Seal Intent   Seal             | No L Cont Do  |  | anod De                  | l                                 |                  |  |  |  |  |  |  |
| 1 1.4 Good                                      | Yes                                     | No Oda Da   | 3  | Suon Dà                  |                                   |                  |  |  |  |  |  |  |

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| If necessary, samples submitted to Hall Environmental may be subcontr                     | ate: Time: Relinguished by: OR | Here: Relinquished by:        |   |  |  |  | 1, Core consil A holl A | OBH CT JODAH COEI 9-1 | LEEKELOI- MOC Jardy Ghole 9-91 | 1 2 1 2 Course 31-15050                                | Date Time Matrix Sample Request ID   | EDD (Type)  | NELAP Other  | screditation                                   | Standard D Level 4 (Full Validation)        | VQCPackage:       | nail or Fax#: Eilong epod.con P   | 10ne #: 505-597-2386 | ramination, NM 87401 P             | ailing Address: 614 Reilly Ave.         | Operating                 | en: Enterprise Products | Chain-of-Custody Record |
|---|--------------------------------|-------------------------------|---|--|--|--|-------------------------|-----------------------|--------------------------------|--|--|---|--|--|---|-------------------|---|----------------------|------------------------------------|---|---------------------------|-------------------------|-------------------------|
| tracted to other accredited laboratories. This serves as notice of this                   | Received by:                   | Received by Arthony Date Time | , |  |  |  | × × -005                |                       | Save WHY -001                  |  | Container Preservative HEAL OF   |   | ALTER STAKE THE PLANE SHARE THE                                    | Sampler: TJC                                   | they can                                    | The               | Project Manager:  |                      | Project #:                         | 16 Inch                                 | Project Name: Trunk MD    | Standard M. Rush        | Next                    |
| is possibility. Any sub-contracted data will be clearly notated on the analytical report. |                                | Remarks:                      |   |  |  |  |                         |                       |                                | B"<br>B<br>TI<br>TI<br>EI<br>P/<br>R<br>AI<br>82<br>82 | TEX + MT<br>TEX + MT<br>PH 8015B<br>PH (Metho<br>DB (Metho<br>AH's (831)<br>CRA 8 Me<br>nions (F,C<br>081 Pestic<br>260B (VO)<br>270 (Semi | BE<br>(GI<br>od 4<br>od 5<br>0 or<br>etals<br>ides<br>A)<br>-VO | + T<br>+ T<br>RO<br>18.<br>04.<br>82<br>03,N<br>82<br>03,N<br>83/8 | MB'<br>PH<br>/ DF<br>1)<br>1)<br>70 \$<br>8082 | (Gaa<br>(Gaa<br>RO /<br>SIMS<br>PO4<br>2 PC | 021<br>3 or<br>MF | )<br>(03<br>(03<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>(03<br>)<br>()<br>(03<br>)<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>() | Analysis Request     | Tel. 505-345-3975 Fax 505-345-4107 | 4901 Hawkins NE - Albuquerque, NM 87109 | www.hallenvironmental.com | ANALYSIS LABORATORY     | HALL ENVIRONMENTAL      |



July 14, 2016

Thomas Long Enterprise Field Services 614 Reilly Ave. Farmington, NM 87401 TEL: (505) 599-2141 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1606B73

Dear Thomas Long:

RE: Trunk MD 16 Inch

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/21/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109
Date Reported: 7/14/2016

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Enterprise Field Services
 Client Sample ID: SR SC-1

 Project:
 Trunk MD 16 Inch
 Collection Date: 6/19/2016 1:30:00 PM

 Lab ID:
 1606B73-001
 Matrix: SOIL
 Received Date: 6/21/2016 8:00:00 AM

| Analyses                         | Result  | PQL Qual | Units | DF | Date Analyzed         | Batch |
|----------------------------------|---------|----------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         | 11/1    |          |       |    | Analyst:              | LGT   |
| Chloride                         | 1.5     | 1.5      | mg/Kg | 1  | 6/24/2016 5:25:57 PM  | 26073 |
| EPA METHOD 7471: MERCURY         |         |          |       |    | Analyst:              | pmf   |
| Mercury                          | ND      | 0.032    | mg/Kg | 1  | 6/24/2016 12:20:25 PM | 26037 |
| EPA METHOD 6010B: SOIL METALS    |         |          |       |    | Analyst:              | MED   |
| Arsenic                          | 6.9     | 2.5      | mg/Kg | 1  | 6/30/2016 10:22:10 AM | 26038 |
| Barium                           | 45      | 0.099    | mg/Kg | 1  | 6/30/2016 10:22:10 AM | 26038 |
| Cadmium                          | ND      | 0.099    | mg/Kg | 1  | 6/27/2016 11:39:27 AM | 26038 |
| Chromium                         | 1.3     | 0.30     | mg/Kg | 1  | 6/27/2016 11:39:27 AM | 26038 |
| Lead                             | 3.7     | 0.25     | mg/Kg | 1  | 6/30/2016 10:22:10 AM | 26038 |
| Selenium                         | ND      | 2.5      | mg/Kg | 1  | 6/30/2016 10:22:10 AM | 26038 |
| Silver                           | ND      | 0.25     | mg/Kg | 1  | 6/27/2016 11:39:27 AM | 26038 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANIC | s        |       |    | Analyst:              | TOM   |
| Diesel Range Organics (DRO)      | ND      | 9.5      | mg/Kg | 1  | 6/27/2016 3:45:24 PM  | 25992 |
| Surr: DNOP                       | 94.6    | 70-130   | %Rec  | 1  | 6/27/2016 3:45:24 PM  | 25992 |
| EPA METHOD 8015D: GASOLINE RANG  | E       |          |       |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND      | 4.8      | mg/Kg | 1  | 6/27/2016 1:21:07 AM  | 25994 |
| Surr: BFB                        | 99.2    | 80-120   | %Rec  | 1  | 6/27/2016 1:21:07 AM  | 25994 |
| EPA METHOD 8021B: VOLATILES      |         |          |       |    | Analyst:              | NSB   |
| Benzene                          | ND      | 0.024    | mg/Kg | 1  | 6/27/2016 1:21:07 AM  | 25994 |
| Toluene                          | ND      | 0.048    | mg/Kg | 1  | 6/27/2016 1:21:07 AM  | 25994 |
| Ethylbenzene                     | ND      | 0.048    | mg/Kg | 1  | 6/27/2016 1:21:07 AM  | 25994 |
| Xylenes, Total                   | ND      | 0.095    | mg/Kg | 1  | 6/27/2016 1:21:07 AM  | 25994 |
| Surr: 4-Bromofluorobenzene       | 96.2    | 80-120   | %Rec  | 1  | 6/27/2016 1:21:07 AM  | 25994 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 1 of 13   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

**Analytical Report** 

#### Lab Order 1606B73

Date Reported: 7/14/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services

1606B73-002

Trunk MD 16 Inch

**Project:** 

Lab ID:

### Client Sample ID: SR WS-1 Collection Date: 6/19/2016 12:05:00 PM

Received Date: 6/21/2016 8:00:00 AM

| Analyses                       | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch  |
|--------------------------------|--------|--------|----------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES    |        |        |          |    | Analyst              | DJF    |
| Benzene                        | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Toluene                        | 1.1    | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Ethylbenzene                   | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2,4-Trimethylbenzene         | 1.6    | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,3,5-Trimethylbenzene         | 1.1    | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Naphthalene                    | ND     | 2.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1-Methylnaphthalene            | ND     | 4.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 2-Methylnaphthalene            | ND     | 4.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Acetone                        | ND     | 10     | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Bromobenzene                   | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Bromodichloromethane           | 8.8    | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Bromoform                      | ND     | 1.0    | μg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Bromomethane                   | ND     | 3.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 2-Butanone                     | ND     | 10     | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Carbon disulfide               | ND     | 10     | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Carbon Tetrachloride           | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Chlorobenzene                  | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Chloroethane                   | ND     | 2.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Chloroform                     | 74     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Chloromethane                  | ND     | 3.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 2-Chlorotoluene                | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 4-Chlorotoluene                | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| cis-1,2-DCE                    | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| cis-1,3-Dichloropropene        | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Dibromochloromethane           | 1.1    | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Dibromomethane                 | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2-Dichlorobenzene            | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,3-Dichlorobenzene            | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,4-Dichlorobenzene            | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Dichlorodifluoromethane        | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,1-Dichloroethane             | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,1-Dichloroethene             | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2-Dichloropropane            | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,3-Dichloropropane            | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 2,2-Dichloropropane            | ND     | 2.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 7/14/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services Trunk MD 16 Inch

1606B73-002

**Project:** 

Lab ID:

#### **Client Sample ID: SR WS-1** Collection Date: 6/19/2016 12:05:00 PM Matrix: AQUEOUS Received Date: 6/21/2016 8:00:00 AM

| Analyses                    | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch  |
|-----------------------------|--------|--------|----------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES |        |        |          |    | Analyst              | DJF    |
| 1,1-Dichloropropene         | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Hexachlorobutadiene         | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 2-Hexanone                  | ND     | 10     | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Isopropylbenzene            | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 4-Isopropyltoluene          | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 4-Methyl-2-pentanone        | ND     | 10     | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Methylene Chloride          | ND     | 3.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| n-Butylbenzene              | ND     | 3.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| n-Propylbenzene             | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| sec-Butylbenzene            | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Styrene                     | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| tert-Butylbenzene           | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,1,1,2-Tetrachloroethane   | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,1,2,2-Tetrachloroethane   | ND     | 2.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Tetrachloroethene (PCE)     | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| trans-1,2-DCE               | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| trans-1,3-Dichloropropene   | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2,3-Trichlorobenzene      | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2,4-Trichlorobenzene      | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,1,1-Trichloroethane       | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,1,2-Trichloroethane       | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Trichloroethene (TCE)       | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Trichlorofluoromethane      | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| 1,2,3-Trichloropropane      | ND     | 2.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Vinyl chloride              | ND     | 1.0    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Xylenes, Total              | 4.9    | 1.5    | µg/L     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Surr: 1,2-Dichloroethane-d4 | 100    | 70-130 | %Rec     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Surr: 4-Bromofluorobenzene  | 98.7   | 70-130 | %Rec     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Surr: Dibromofluoromethane  | 99.7   | 70-130 | %Rec     | 1  | 6/27/2016 9:17:19 PM | A35244 |
| Surr: Toluene-d8            | 92.5   | 70-130 | %Rec     | 1  | 6/27/2016 9:17:19 PM | A35244 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | H  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 3 of 13   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

WO#: 1606B73

14-Jul-16

| Client:<br>Project: | Enter<br>Trun | rprise Field Services<br>k MD 16 Inch |           |             |           |          |              |      |          |      |
|---------------------|---------------|---------------------------------------|-----------|-------------|-----------|----------|--------------|------|----------|------|
| Sample ID           | MB-26073      | SampType: M                           | IBLK      | Tes         | tCode: EP | A Method | 300.0: Anion | s    |          |      |
| Client ID:          | PBS           | Batch ID: 2                           | 6073      | R           | RunNo: 35 | 5186     |              |      |          |      |
| Prep Date:          | 6/24/2016     | Analysis Date: 6                      | 5/24/2016 | S           | SeqNo: 10 | 88718    | Units: mg/K  | g    |          |      |
| Analyte             |               | Result PQL                            | SPK value | SPK Ref Val | %REC      | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride            |               | ND 1.5                                | 5         |             |           |          |              |      |          |      |
| Sample ID           | LCS-26073     | SampType: L                           | cs        | Test        | tCode: EP | A Method | 300.0: Anion | s    |          |      |
| Client ID:          | LCSS          | Batch ID: 2                           | 6073      | R           | RunNo: 35 | 5186     |              |      |          |      |
| Prep Date:          | 6/24/2016     | Analysis Date: 6                      | 5/24/2016 | S           | SeqNo: 10 | 88719    | Units: mg/K  | g    |          |      |
| Analyte             |               | Result PQL                            | SPK value | SPK Ref Val | %REC      | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride            |               | 14 1.5                                | 15.00     | 0           | 93.2      | 90       | 110          |      |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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# QC SUMMARY REPORT

| Hall Env    | ironmen | tal Analysis Laborato | ory, Inc.                                 |
|-------------|---------|-----------------------|---|
| Client:     | Enterpr | rise Field Services   |   |
| Project:    | Trunk   | MD 16 Inch            |   |
| Sample ID M | B-25992 | SampType: MBLK        | TestCode: EPA Method 8015M/D: Diesel Rang |

| Sample ID MB-25992   | SampTy   | pe: ME   | BLK  | Tes  | tCode: E   | PA Method  | 8015M/D: Di   | esel Rang  | e Organics   |      |
|--|--|--|--|--|--|--|---|--|--|------|
| Client ID: PBS   | Batch I  | D: 25  | 992  | F  | RunNo: 3   | 5221   |   |  |  |      |
| Prep Date: 6/22/2016   | Analysis Da  | te: 6/   | 27/2016  | 5  | SeqNo: 1   | 089257   | Units: mg/l   | <b>K</b> g   |  |      |
| Analyte  | Result   | PQL  | SPK value  | SPK Ref Val  | %REC   | LowLimit   | HighLimit   | %RPD   | RPDLimit   | Qual |
| Diesel Range Organics (DRO)  | ND   | 10   |  |  |  |  |   |  |  |      |
| Surr: DNOP   | 8.9  |  | 10.00  |  | 88.6   | 70   | 130   |  |  |      |
| Sample ID LCS-25992  | SampTy   | pe: LC   | s  | Tes  | tCode: E   | PA Method  | 8015M/D: Di   | esel Rang  | e Organics   |      |
| Client ID: LCSS  | Batch I  | D: 25  | 992  | F  | RunNo: 3   | 5221   |   |  |  |      |
| Prep Date: 6/22/2016   | Analysis Da  | te: 6/   | 27/2016  | 5  | SeqNo: 1   | 089274   | Units: mg/l   | <b>K</b> g   |  |      |
| Analyte  | Result   | PQL  | SPK value  | SPK Ref Val  | %REC   | LowLimit   | HighLimit   | %RPD   | RPDLimit   | Qual |
| Range Organics (DRO)   | 52   | 10   | 50.00  | 0  | 103  | 62.6   | 124   |  |  |      |
| Surr: DNOP   | 4.8  |  | 5.000  |  | 96.6   | 70   | 130   |  |  |      |
|  |  |  |  |  |  |  |   |  |  |      |
| Sample ID 1606B73-001AMS   | SampTy   | pe: MS   | 3  | Tes  | tCode: El  | PA Method  | 8015M/D: Di   | esel Rang  | e Organics   |      |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1   | SampTy<br>Batch I  | pe: MS   | 5<br>992   | Tes<br>F   | tCode: El<br>RunNo: 3  | PA Method<br>5219  | 8015M/D: Di   | esel Rang  | e Organics   |      |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016   | SampTy<br>Batch I<br>Analysis Da   | pe: MS<br>D: 25<br>te: 6/  | 3<br>992<br>27/2016  | Tes<br>F<br>S  | tCode: El<br>RunNo: 3<br>SeqNo: 1  | PA Method<br>5219<br>089739  | 8015M/D: Di<br>Units: mg/ł  | esel Rang<br>Kg                                    | e Organics   |      |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte  | S SampTyj<br>Batch I<br>Analysis Da<br>Result  | pe: <b>MS</b><br>D: <b>25</b><br>te: <b>6</b> /<br>PQL                             | 3<br>992<br>27/2016<br>SPK value   | Tes<br>F<br>SPK Ref Val  | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC  | PA Method<br>5219<br>089739<br>LowLimit  | 8015M/D: Di<br>Units: mg/I<br>HighLimit   | esel Rang<br>(g<br>%RPD                            | e Organics<br>RPDLimit                                 | Qual |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO)  | S SampTyp<br>Batch I<br>Analysis Dat<br>Result<br>39   | pe: MS<br>D: 25<br>te: 6/<br>PQL<br>9.2  | 5<br>9992<br>27/2016<br>SPK value<br>45.87   | Tes<br>F<br>S<br>SPK Ref Val<br>2.122                                | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>80.5  | PA Method<br>5219<br>089739<br>LowLimit<br>33.9  | 8015M/D: Di<br>Units: mg/H<br>HighLimit<br>141  | esel Rang<br>(g<br>%RPD                            | e Organics<br>RPDLimit                                 | Qual |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO)<br>Surr: DNOP  | S SampTyp<br>Batch I<br>Analysis Dat<br>Result<br>39<br>4.3  | pe: MS<br>D: 259<br>te: 6/<br>PQL<br>9.2   | 5<br>992<br>27/2016<br>SPK value<br>45.87<br>4.587   | Tes<br>F<br>SPK Ref Val<br>2.122                                     | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>80.5<br>93.9  | PA Method<br>5219<br>089739<br>LowLimit<br>33.9<br>70  | 8015M/D: Di<br>Units: mg/H<br>HighLimit<br>141<br>130   | esel Rang<br>(g<br>%RPD                            | e Organics   | Qual |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606B73-001AMS  | S SampTyr<br>Batch I<br>Analysis Dar<br>Result<br>39<br>4.3<br>SD SampTyr  | pe: MS<br>D: 25<br>te: 6/<br>PQL<br>9.2<br>pe: MS                                  | 992<br>27/2016<br>SPK value<br>45.87<br>4.587  | Tes<br>F<br>SPK Ref Val<br>2.122<br>Tes                              | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>80.5<br>93.9<br>tCode: El   | PA Method<br>5219<br>089739<br>LowLimit<br>33.9<br>70<br>PA Method                                       | 8015M/D: Di<br>Units: mg/H<br>HighLimit<br>141<br>130<br>8015M/D: Di                                    | esel Rang<br>(g<br>%RPD<br>esel Rang               | e Organics<br>RPDLimit                                 | Qual |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606B73-001AMS<br>Client ID: SR SC-1  | S SampTyj<br>Batch I<br>Analysis Da<br>Result<br>39<br>4.3<br>SD SampTyj<br>Batch I                                | pe: MS<br>D: 25<br>te: 6/<br>PQL<br>9.2<br>pe: MS<br>D: 25                         | 5<br>992<br>27/2016<br>SPK value<br>45.87<br>4.587<br>5D<br>992                                  | Tes<br>F<br>SPK Ref Val<br>2.122<br>Tes<br>F                         | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>80.5<br>93.9<br>tCode: El<br>RunNo: 3                             | PA Method<br>5219<br>089739<br>LowLimit<br>33.9<br>70<br>PA Method<br>5219                               | 8015M/D: Di<br>Units: mg/H<br>HighLimit<br>141<br>130<br>8015M/D: Di                                    | esel Rang<br>(g<br>%RPD<br>esel Rang               | e Organics<br>RPDLimit                                 | Qual |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO)<br>Sur: DNOP<br>Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016                                     | S SampTyr<br>Batch I<br>Analysis Dat<br>Result<br>39<br>4.3<br>SD SampTyr<br>Batch I<br>Analysis Dat               | pe: MS<br>D: 25<br>te: 6/<br>PQL<br>9.2<br>pe: MS<br>D: 25<br>te: 6/               | \$<br>992<br>27/2016<br>SPK value<br>45.87<br>4.587<br>\$<br>5<br>0<br>992<br>27/2016            | Tes<br>F<br>SPK Ref Val<br>2.122<br>Tes<br>F<br>S                    | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>80.5<br>93.9<br>tCode: El<br>RunNo: 3<br>SeqNo: 1                 | PA Method<br>5219<br>089739<br>LowLimit<br>33.9<br>70<br>PA Method<br>5219<br>089740                     | 8015M/D: Di<br>Units: mg/H<br>HighLimit<br>141<br>130<br>8015M/D: Di<br>Units: mg/H                     | esel Rang<br>(g<br>%RPD<br>esel Rang               | e Organics<br>RPDLimit                                 | Qual |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte                         | S SampTyr<br>Batch I<br>Analysis Da<br>Result<br>39<br>4.3<br>SD SampTyr<br>Batch I<br>Analysis Da<br>Result       | pe: MS<br>D: 25<br>te: 6/<br>9.2<br>pe: MS<br>D: 25<br>te: 6/<br>PQL               | 5<br>992<br>27/2016<br>SPK value<br>45.87<br>4.587<br>5D<br>992<br>27/2016<br>SPK value          | Tes<br>F<br>SPK Ref Val<br>2.122<br>Tes<br>F<br>SPK Ref Val          | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>80.5<br>93.9<br>tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC         | PA Method<br>5219<br>089739<br>LowLimit<br>33.9<br>70<br>PA Method<br>5219<br>089740<br>LowLimit         | 8015M/D: Di<br>Units: mg/H<br>HighLimit<br>141<br>130<br>8015M/D: Di<br>Units: mg/H<br>HighLimit        | esel Rang<br>(g<br>%RPD<br>esel Rang<br>(g<br>%RPD | e Organics<br>RPDLimit                                 | Qual |
| Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606B73-001AMS<br>Client ID: SR SC-1<br>Prep Date: 6/22/2016<br>Analyte<br>Range Organics (DRO) | S SampTyr<br>Batch I<br>Analysis Da<br>Result<br>39<br>4.3<br>SD SampTyr<br>Batch I<br>Analysis Da<br>Result<br>41 | pe: MS<br>D: 25<br>te: 6/<br>PQL<br>9.2<br>pe: MS<br>D: 25<br>te: 6/<br>PQL<br>9.4 | 5<br>992<br>27/2016<br>SPK value<br>45.87<br>4.587<br>5D<br>992<br>27/2016<br>SPK value<br>46.90 | Tes<br>F<br>SPK Ref Val<br>2.122<br>Tes<br>F<br>SPK Ref Val<br>2.122 | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>80.5<br>93.9<br>tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>82.9 | PA Method<br>5219<br>089739<br>LowLimit<br>33.9<br>70<br>PA Method<br>5219<br>089740<br>LowLimit<br>33.9 | 8015M/D: Di<br>Units: mg/k<br>HighLimit<br>141<br>130<br>8015M/D: Di<br>Units: mg/k<br>HighLimit<br>141 | esel Rang<br>%RPD<br>esel Rang<br>%RPD<br>4.91     | e Organics<br>RPDLimit<br>e Organics<br>RPDLimit<br>20 | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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1606B73 14-Jul-16

WO#:

WO#: 1606B73

14-Jul-16

| <b>Client:</b>  | Enterprise  | e Field Ser  | vices  |   |   |  |  |   |  |                                      |      |
|---|---|--|--|---|---|--|--|---|--|--------------------------------------|------|
| <b>Project:</b>   | Trunk MI  | D 16 Inch  |  |   |   |  |  |   |  |                                      |      |
| Sample ID   | MB-25994  | SampT  | ype: M   | BLK   | Tes   | tCode: El  | PA Method  | 8015D: Gaso   | line Rang  | e                                    |      |
| Client ID:  | PBS   | Batch  | D: 25  | 994   | F   | RunNo: 3   | 5223   |   |  |                                      |      |
| Pron Date:  | 6/22/2016   | Analysis D   | ate: 6   | 127/2016  |   | SegNo: 1   | 080084   |   | (a   |                                      |      |
| Flep Date.  | 0/22/2010   | Analysis   | ale. O   | 2112010   |   | equito.  | 003004   | orina. mg/r   | .9   |                                      |      |
| Analyte   |   | Result   | PQL  | SPK value   | SPK Ref Val   | %REC   | LowLimit   | HighLimit   | %RPD   | RPDLimit                             | Qual |
| Gasoline Rang   | e Organics (GRO)  | ND   | 5.0  |   |   |  |  |   |  |                                      |      |
| Surr: BFB   |   | 990  |  | 1000  |   | 99.1   | 80   | 120   |  |                                      |      |
| Sample ID   | LCS-25994   | SampT  | ype: LC  | s   | Tes   | tCode: El  | PA Method  | 8015D: Gaso   | line Rang  | e                                    |      |
| Client ID:  | LCSS  | Batch  | n ID: 25   | 994   | F   | RunNo: 3   | 5223   |   |  |                                      |      |
| Prep Date:  | 6/22/2016   | Analysis D   | ate: 6   | /27/2016  | 5   | SeqNo: 1   | 089085   | Units: mg/k   | (g   |                                      |      |
| Analyte   |   | Result   | PQL  | SPK value   | SPK Ref Val   | %REC   | LowLimit   | HighLimit   | %RPD   | RPDLimit                             | Qual |
| Gasoline Rang   | e Organics (GRO)  | 28   | 5.0  | 25.00   | 0   | 111  | 80   | 120   |  |                                      |      |
| Surr: BFB   |   | 1100   |  | 1000  |   | 109  | 80   | 120   |  |                                      |      |
|   |   |  |  |   |   |  |  |   |  |                                      |      |
| Sample ID   | 1606B73-001AMS  | SampT  | ype: MS  | S   | Tes   | tCode: El  | PA Method  | 8015D: Gaso   | line Rang  | e                                    |      |
| Sample ID<br>Client ID:   | 1606B73-001AMS<br>SR SC-1   | SampT<br>Batch   | ype: M:<br>1D: 25  | S<br>1994   | Tes<br>F  | tCode: El<br>RunNo: 3  | PA Method<br>5223  | 8015D: Gaso   | oline Rang   | e                                    |      |
| Sample ID<br>Client ID:<br>Prep Date:   | 1606B73-001AMS<br>SR SC-1<br>6/22/2016  | SampT<br>Batch<br>Analysis D   | ype: M:<br>1D: 25<br>ate: 6/   | S<br>994<br>/27/2016  | Tes<br>F  | tCode: El<br>RunNo: 3<br>SeqNo: 1  | PA Method<br>5223<br>089087  | 8015D: Gaso<br>Units: mg/k  | oline Rang   | e                                    |      |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte  | 1606B73-001AMS<br>SR SC-1<br>6/22/2016  | SampT<br>Batch<br>Analysis D<br>Result   | ÿpe: <b>M</b><br>1D: <b>25</b><br>9ate: <b>6</b> /<br>PQL                                | S<br>9994<br>/27/2016<br>SPK value  | Tes<br>F<br>S<br>SPK Ref Val                            | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC  | PA Method<br>5223<br>089087<br>LowLimit  | 8015D: Gaso<br>Units: mg/M<br>HighLimit   | oline Rang<br>Kg<br>%RPD                                     | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang   | 1606B73-001AMS<br>SR SC-1<br>6/22/2016<br>e Organics (GRO)  | SampT<br>Batch<br>Analysis D<br>Result<br>24   | ype: Ms<br>1D: 25<br>Pate: 6/<br>PQL<br>5.0  | S<br>994<br>/27/2016<br>SPK value<br>24.80  | Tes<br>F<br>SPK Ref Val<br>0                            | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>96.5  | PA Method<br>5223<br>089087<br>LowLimit<br>59.3  | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143  | oline Rang<br>Kg<br>%RPD                                     | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB  | 1606B73-001AMS<br>SR SC-1<br>6/22/2016<br>re Organics (GRO)   | SampT<br>Batch<br>Analysis D<br>Result<br>24<br>1100   | ype: M:<br>n ID: 25<br>pate: 6/<br>PQL<br>5.0  | S<br>994<br>/27/2016<br>SPK value<br>24.80<br>992.1                                       | Tes<br>F<br>SPK Ref Val<br>0                            | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>96.5<br>107   | PA Method<br>5223<br>089087<br>LowLimit<br>59.3<br>80  | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143<br>120   | viine Rang<br>(g<br>%RPD                                     | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID   | 1606B73-001AMS<br>SR SC-1<br>6/22/2016<br>e Organics (GRO)<br>1606B73-001AMSI   | SampT<br>Batch<br>Analysis D<br>Result<br>24<br>1100<br>D SampT  | ype: M:<br>n ID: 25<br>pate: 6/<br>PQL<br>5.0  | S<br>9994<br>/27/2016<br>SPK value<br>24.80<br>992.1<br>SD                                | Tes<br>F<br>SPK Ref Val<br>0<br>Tes                     | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>96.5<br>107<br>tCode: El  | PA Method<br>5223<br>089087<br>LowLimit<br>59.3<br>80<br>PA Method                                       | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143<br>120<br>8015D: Gaso                                    | Sine Rang<br>%RPD<br>Sine Rang                               | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Sur: BFB<br>Sample ID<br>Client ID:  | 1606B73-001AMS<br>SR SC-1<br>6/22/2016<br>e Organics (GRO)<br>1606B73-001AMSI<br>SR SC-1                                  | SampT<br>Batch<br>Analysis D<br>Result<br>24<br>1100<br>D SampT<br>Batch                               | ype: M<br>1D: 25<br>pate: 6/<br>PQL<br>5.0<br>ype: M<br>ype: M                           | S<br>994<br>/27/2016<br>24.80<br>992.1<br>SD<br>994                                       | Tes<br>F<br>SPK Ref Val<br>0<br>Tes<br>F                | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>96.5<br>107<br>tCode: El<br>RunNo: 3                              | PA Method<br>5223<br>089087<br>LowLimit<br>59.3<br>80<br>PA Method<br>5223                               | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143<br>120<br>8015D: Gaso                                    | Vine Rang<br>%<br>%RPD<br>Vine Rang                          | e<br>RPDLimit<br>e                   | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID<br>Client ID:<br>Prep Date:                             | 1606B73-001AMS<br>SR SC-1<br>6/22/2016<br>e Organics (GRO)<br>1606B73-001AMSI<br>SR SC-1<br>6/22/2016                     | SampT<br>Batch<br>Analysis D<br>Result<br>24<br>1100<br>D SampT<br>Batch<br>Analysis D                 | ype: M3<br>n ID: 25<br>vate: 6/<br>PQL<br>5.0<br>ype: M3<br>n ID: 25<br>vate: 6/         | S<br>9994<br>/27/2016<br>SPK value<br>24.80<br>992.1<br>SD<br>994<br>/27/2016             | Tes<br>SPK Ref Val<br>0<br>Tes<br>F<br>S                | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>96.5<br>107<br>tCode: El<br>RunNo: 3<br>SeqNo: 10                 | PA Method<br>5223<br>089087<br>LowLimit<br>59.3<br>80<br>PA Method<br>5223<br>089088                     | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143<br>120<br>8015D: Gaso<br>Units: mg/k                     | Vilne Rang<br>%g<br>%RPD<br>Vilne Rang                       | e<br>RPDLimit<br>e                   | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte                  | 1606B73-001AMS<br>SR SC-1<br>6/22/2016<br>re Organics (GRO)<br>1606B73-001AMS<br>SR SC-1<br>6/22/2016                     | SampT<br>Batch<br>Analysis D<br>Result<br>24<br>1100<br>D SampT<br>Batch<br>Analysis D<br>Result       | ype: M<br>DE: 25<br>wate: 6/<br>PQL<br>5.0<br>ype: M<br>ype: M<br>ype: 6/<br>PQL<br>PQL  | S<br>994<br>/27/2016<br>SPK value<br>24.80<br>992.1<br>SD<br>994<br>/27/2016<br>SPK value | Tes<br>SPK Ref Val<br>0<br>Tes<br>SPK Ref Val           | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>96.5<br>107<br>tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC          | PA Method<br>5223<br>089087<br>LowLimit<br>59.3<br>80<br>PA Method<br>5223<br>089088<br>LowLimit         | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143<br>120<br>8015D: Gaso<br>Units: mg/k<br>HighLimit        | Vilne Rang<br>%<br>%RPD<br>Vilne Rang<br>%<br>%RPD           | e<br>RPDLimit<br>e<br>RPDLimit       | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang | 1606B73-001AMS<br>SR SC-1<br>6/22/2016<br>e Organics (GRO)<br>1606B73-001AMSI<br>SR SC-1<br>6/22/2016<br>e Organics (GRO) | SampT<br>Batch<br>Analysis D<br>Result<br>24<br>1100<br>D SampT<br>Batch<br>Analysis D<br>Result<br>25 | ype: M<br>DD: 25<br>pate: 6/<br>PQL<br>5.0<br>ype: M<br>DD: 25<br>pate: 6/<br>PQL<br>4.8 | S<br>9994<br>/27/2016<br>24.80<br>992.1<br>SD<br>994<br>/27/2016<br>SPK value<br>24.06    | Tes<br>SPK Ref Val<br>0<br>Tes<br>F<br>SPK Ref Val<br>0 | tCode: El<br>RunNo: 3<br>SeqNo: 10<br>%REC<br>96.5<br>107<br>tCode: El<br>RunNo: 3<br>SeqNo: 10<br>%REC<br>103 | PA Method<br>5223<br>089087<br>LowLimit<br>59.3<br>80<br>PA Method<br>5223<br>089088<br>LowLimit<br>59.3 | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143<br>120<br>8015D: Gaso<br>Units: mg/k<br>HighLimit<br>143 | Aline Rang<br>Kg<br>%RPD<br>Aline Rang<br>Kg<br>%RPD<br>3.16 | e<br>RPDLimit<br>e<br>RPDLimit<br>20 | Qual |

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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**Enterprise Field Services** 

| Project: Trunk N           | MD 16 Inch     |      |           |             |         |           |             |       |          |      |
|----------------------------|----------------|------|-----------|-------------|---------|-----------|-------------|-------|----------|------|
| Sample ID MB-25994         | SampType       | MBL  | -K        | Test        | Code: E | PA Method | 8021B: Vola | tiles |          |      |
| Client ID: PBS             | Batch ID:      | 2599 | 94        | R           | unNo: 3 | 5223      |             |       |          |      |
| Prep Date: 6/22/2016       | Analysis Date: | 6/27 | 7/2016    | S           | eqNo: 1 | 089121    | Units: mg/k | g     |          |      |
| Analyte                    | Result PO      |      | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual |
| Benzene                    | ND 0.0         | 025  |           |             |         |           |             |       |          |      |
| Toluene                    | ND 0.0         | 050  |           |             |         |           |             |       |          |      |
| Ethylbenzene               | ND 0.0         | 050  |           |             |         |           |             |       |          |      |
| Xylenes, Total             | ND 0           | .10  |           |             |         |           |             |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.97           |      | 1.000     |             | 96.8    | 80        | 120         |       |          |      |
| Sample ID LCS-25994        | SampType       | LCS  |           | Test        | Code: E | PA Method | 8021B: Vola | tiles |          |      |
| Client ID: LCSS            | Batch ID:      | 2599 | 94        | R           | unNo: 3 | 5223      |             |       |          |      |
| Prep Date: 6/22/2016       | Analysis Date: | 6/27 | 7/2016    | S           | eqNo: 1 | 089124    | Units: mg/k | g     |          |      |
| Analyte                    | Result PO      | QL S | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual |
| Benzene                    | 1.1 0.0        | 025  | 1.000     | 0           | 106     | 75.3      | 123         |       |          |      |
| Toluene                    | 1.1 0.0        | 050  | 1.000     | 0           | 108     | 80        | 124         |       |          |      |
| Ethylbenzene               | 1.1 0.0        | 050  | 1.000     | 0           | 109     | 82.8      | 121         |       |          |      |
| Xylenes, Total             | 3.2 0          | .10  | 3.000     | 0           | 107     | 83.9      | 122         |       |          |      |
| Surr: 4-Bromofluorobenzene | 1.0            |      | 1.000     |             | 105     | 80        | 120         |       |          |      |

**Qualifiers:** 

**Client:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

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WO#:

1606B73

14-Jul-16

### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID rb                   | SampT      | ype: M   | BLK       | TestCode: EPA Method 8260B: VOLATILES |          |          |             |      |          |      |
|--------------------------------|------------|----------|-----------|---------------------------------------|----------|----------|-------------|------|----------|------|
| Client ID: PBW                 | Batch      | n ID: A3 | 5244      | RunNo: 35244                          |          |          |             |      |          |      |
| Prep Date:                     | Analysis D | ate: 6   | /27/2016  | 5                                     | SeqNo: 1 | 089953   | Units: µg/L |      |          |      |
| Analyte                        | Result     | PQL      | SPK value | SPK Ref Val                           | %REC     | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Benzene                        | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Toluene                        | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Ethylbenzene                   | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,2,4-Trimethylbenzene         | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,3,5-Trimethylbenzene         | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,2-Dichloroethane (EDC)       | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,2-Dibromoethane (EDB)        | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Naphthalene                    | ND         | 2.0      |           |                                       |          |          |             |      |          |      |
| 1-Methylnaphthalene            | ND         | 4.0      |           |                                       |          |          |             |      |          |      |
| 2-Methylnaphthalene            | ND         | 4.0      |           |                                       |          |          |             |      |          |      |
| Acetone                        | ND         | 10       |           |                                       |          |          |             |      |          |      |
| Bromobenzene                   | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Bromodichloromethane           | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Bromoform                      | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Bromomethane                   | ND         | 3.0      |           |                                       |          |          |             |      |          |      |
| 2-Butanone                     | ND         | 10       |           |                                       |          |          |             |      |          |      |
| Carbon disulfide               | ND         | 10       |           |                                       |          |          |             |      |          |      |
| Carbon Tetrachloride           | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Chlorobenzene                  | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Chloroethane                   | ND         | 2.0      |           |                                       |          |          |             |      |          |      |
| Chloroform                     | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Chloromethane                  | ND         | 3.0      |           |                                       |          |          |             |      |          |      |
| 2-Chlorotoluene                | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 4-Chlorotoluene                | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| cis-1,2-DCE                    | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| cis-1,3-Dichloropropene        | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,2-Dibromo-3-chloropropane    | ND         | 2.0      |           |                                       |          |          |             |      |          |      |
| Dibromochloromethane           | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Dibromomethane                 | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,2-Dichlorobenzene            | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,3-Dichlorobenzene            | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,4-Dichlorobenzene            | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| Dichlorodifluoromethane        | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,1-Dichloroethane             | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,1-Dichloroethene             | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,2-Dichloropropane            | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 1,3-Dichloropropane            | ND         | 1.0      |           |                                       |          |          |             |      |          |      |
| 2,2-Dichloropropane            | ND         | 2.0      |           |                                       |          |          |             |      |          |      |

#### Qualifiers:

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- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1606B73

1**4-Jul**-16

#### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID' rb               | SampT      | ype: MBL  | .K          | Tes            | tCode: El | PA Method  | 8260B: VOL  | ATILES  |           |      |
|-----------------------------|------------|-----------|-------------|----------------|-----------|------------|-------------|---------|-----------|------|
| Client ID: PBW              | Batch      | D: A35    | 244         | F              | RunNo: 3  |            |             |         |           |      |
| Prep Date:                  | Analysis D | ate: 6/27 | 7/2016      | 5              | SeqNo: 1  | 089953     | Units: µg/L |         |           |      |
| Analyte                     | Result     | POL       | SPK value   | SPK Ref Val    | %REC      | I owl imit | Highl imit  | %RPD    | RPDI imit | Qual |
| 1 1-Dichloropropene         | ND         | 10        | or it value | or it iter var | MILLO     | LOWLINI    | riigneiniit | /orcr D |           | Quai |
| Hexachlorobutadiene         | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 2-Hexanone                  | ND         | 10        |             |                |           |            |             |         |           |      |
| Isopropylbenzene            | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 4-Isopropyltoluene          | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 4-Methyl-2-nentanone        | ND         | 10        |             |                |           |            |             |         |           |      |
| Methylene Chloride          | ND         | 3.0       |             |                |           |            |             |         |           |      |
| n-Butylbenzene              | ND         | 3.0       |             |                |           |            |             |         |           |      |
| n-Pronylbenzene             | ND         | 1.0       |             |                |           |            |             |         |           |      |
| sec-Butylbenzene            | ND         | 1.0       |             |                |           |            |             |         |           |      |
| Styrene                     | ND         | 1.0       |             |                |           |            |             |         |           |      |
| tert-Butylbenzene           | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 1112-Tetrachloroethane      | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 1.1.2.2-Tetrachloroethane   | ND         | 2.0       |             |                |           |            |             |         |           |      |
| Tetrachloroethene (PCE)     | ND         | 1.0       |             |                |           |            |             |         |           |      |
| trans-1.2-DCE               | ND         | 1.0       |             |                |           |            |             |         |           |      |
| trans-1.3-Dichloropropene   | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 1.2.3-Trichlorobenzene      | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 1.2.4-Trichlorobenzene      | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 1.1.1-Trichloroethane       | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 1.1.2-Trichloroethane       | ND         | 1.0       |             |                |           |            |             |         |           |      |
| Trichloroethene (TCE)       | ND         | 1.0       |             |                |           |            |             |         |           |      |
| Trichlorofluoromethane      | ND         | 1.0       |             |                |           |            |             |         |           |      |
| 1.2.3-Trichloropropane      | ND         | 2.0       |             |                |           |            |             |         |           |      |
| Vinyl chloride              | ND         | 1.0       |             |                |           |            |             |         |           |      |
| Xylenes, Total              | ND         | 1.5       |             |                |           |            |             |         |           |      |
| Surr: 1,2-Dichloroethane-d4 | 9.8        |           | 10.00       |                | 98.2      | 70         | 130         |         |           |      |
| Surr: 4-Bromofluorobenzene  | 10         |           | 10.00       |                | 99.8      | 70         | 130         |         |           |      |
| Surr: Dibromofluoromethane  | 9.9        |           | 10.00       |                | 98.7      | 70         | 130         |         |           |      |
| Surr: Toluene-d8            | 9.4        |           | 10.00       |                | 93.9      | 70         | 130         |         |           |      |
| Sample ID 100ng Ics         | SampT      | ype: LCS  |             | Tes            | tCode: EF | PA Method  | 8260B: VOL  | ATILES  |           |      |
| Client ID: LCSW             | Batch      | ID: A352  | 244         | R              | RunNo: 3  | 5244       |             |         |           |      |
| Prep Date:                  | Analysis D | ate: 6/27 | //2016      | S              | eqNo: 10  | 089954     | Units: µg/L |         |           |      |

|               | -      |     |           |             |      |          |           |      |          |      |
|---------------|--------|-----|-----------|-------------|------|----------|-----------|------|----------|------|
| Analyte       | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene       | 21     | 1.0 | 20.00     | 0           | 105  | 70       | 130       |      |          |      |
| Toluene       | 18     | 1.0 | 20.00     | 0           | 91.4 | 70       | 130       |      |          |      |
| Chlorobenzene | 18     | 1.0 | 20.00     | 0           | 90.1 | 70       | 130       |      |          |      |

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WO#: 1606B73

14-Jul-16

### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID 100ng Ics         | SampT      | SampType: LCS TestCode: EPA Method 8260B: VOLATILES |           |             |          |                      |             |      |          |      |
|-----------------------------|------------|---|-----------|-------------|----------|----------------------|-------------|------|----------|------|
| Client ID: LCSW             | Batch      | ID: A3  | 5244      | F           | RunNo: 3 | 5244                 |             |      |          |      |
| Prep Date:                  | Analysis D | ate: 6/   | 27/2016   | S           | SeqNo: 1 | 08995 <mark>4</mark> | Units: µg/L |      |          |      |
| Analyte                     | Result     | PQL   | SPK value | SPK Ref Val | %REC     | LowLimit             | HighLimit   | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene          | 20         | 1.0   | 20.00     | 0           | 101      | 70                   | 130         |      |          |      |
| Trichloroethene (TCE)       | 21         | 1.0   | 20.00     | 0           | 105      | 70                   | 130         |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.7        |   | 10.00     |             | 96.7     | 70                   | 130         |      |          |      |
| Surr: 4-Bromofluorobenzene  | 10         |   | 10.00     |             | 99.5     | 70                   | 130         |      |          |      |
| Surr: Dibromofluoromethane  | 9.9        |   | 10.00     |             | 99.1     | 70                   | 130         |      |          |      |
| Surr: Toluene-d8            | 9.1        |   | 10.00     |             | 90.9     | 70                   | 130         |      |          |      |

#### Qualifiers:

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- S % Recovery outside of range due to dilution or matrix
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- E Value above quantitation range
- J Analyte detected below quantitation limits
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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1606B73 14-Jul-16

WO#:

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| Client:<br>Project:     | Enterprise<br>Trunk MI | e Field Ser<br>D 16 Inch | vices        |                       |             |                  |           |                                 |                   |          |      |
|-------------------------|------------------------|--------------------------|--------------|-----------------------|-------------|------------------|-----------|---------------------------------|-------------------|----------|------|
| Sample ID<br>Client ID: | MB-26037<br>PBS        | SampT                    | ype: M       | BLK<br>3037           | Tes         | tCode: E         | PA Method | 7471: Mercu                     | iry               |          |      |
| Prep Date:              | 6/23/2016              | Analysis D               | ate: 6       | /24/2016              | S           | SeqNo: 1         | 1088910   | Units: mg/l                     | ٢g                |          |      |
| Analyte<br>ury          |                        | Result<br>ND             | PQL<br>0.033 | SPK value             | SPK Ref Val | %REC             | LowLimit  | HighLimit                       | %RPD              | RPDLimit | Qual |
| Sample ID               | LCS-26037              | SampT                    | ype: LO      | cs                    | Tes         | tCode: E         | PA Method | 7471: Mercu                     | iry               |          |      |
| Client ID:              | LCSS                   | Batch                    | D: 26        | 6037                  | F           | RunNo:           | 35191     |                                 |                   |          |      |
| Prep Date:              | 6/23/2016              | Analysis D               | ate: 6       | /24/2016              | 5           | SeqNo: 1         | 1088911   | Units: mg/H                     | ٢g                |          |      |
| Analyte                 |                        | Result                   | PQL          | SPK value             | SPK Ref Val | %REC             | LowLimit  | HighLimit                       | %RPD              | RPDLimit | Qual |
| Mercury                 |                        | 0.17                     | 0.033        | 0.1667                | 0           | 102              | 80        | 120                             |                   |          |      |
| Sample ID               | 1606B73-001AMS         | SampT                    | ype: M       | s                     | Tes         | tCode: E         | PA Method | 7471: Mercu                     | iry               |          |      |
| Client ID:              | SR SC-1                | Batch                    | D: 26        | 6037                  | F           | RunNo: 3         | 35191     |                                 |                   |          |      |
| Prep Date:              | 6/23/2016              | Analysis D               | ate: 6       | /24/2016              | S           | SeqNo: 1         | 088913    | Units: mg/ł                     | ۲g                |          |      |
| Analyte                 |                        | Result                   | PQL          | SPK value             | SPK Ref Val | %REC             | LowLimit  | HighLimit                       | %RPD              | RPDLimit | Qual |
| xury                    |                        | 0.17                     | 0.032        | 0.1620                | 0.003284    | 103              | 75        | 125                             |                   |          |      |
| Sample ID               | 1606B73-001AMS         | SampT                    | ype: M       | SD                    | Tes         | tCode: E         | PA Method | 7471: Mercu                     | iry               |          |      |
| Client ID:              | SP SC-1                | Batch                    | D 26         | 037                   | F           | RunNo: 3         | 35191     |                                 |                   |          |      |
|                         | 0100-1                 | Dutor                    | 110. 20      |                       |             |                  |           |                                 |                   |          |      |
| Prep Date:              | 6/23/2016              | Analysis D               | ate: 6       | /24/2016              | s           | SeqNo: 1         | 088914    | Units: mg/k                     | ٢g                |          |      |
| Prep Date:<br>Analyte   | 6/23/2016              | Analysis D<br>Result     | ate: 6       | /24/2016<br>SPK value | SPK Ref Val | SeqNo: 1<br>%REC | LowLimit  | Units: <b>mg//</b><br>HighLimit | <b>(g</b><br>%RPD | RPDLimit | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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- 14-Jul-16
- WO#: 1606B73

| QC SU<br>Hall Ei  | J <b>MMARY</b><br>nvironmenta | REP<br>al Anal  | ORT<br>ysis I | Laborat   | ory, Inc.   |           |           |                     |        | WO#:     | 1606B73<br>14-Jul-16 |
|---|-------------------------------|---|---------------|-----------|-------------|-----------|-----------|---------------------|--------|----------|----------------------|
| Client:   | Enterprise<br>Truck M         | e Field Se  | rvices        |           |             |           |           |                     |        |          |                      |
| Project:  |                               | D 16 Inch   |               |           |             |           |           |                     |        |          |                      |
| Sample ID   | MB-26038                      | Samp  | lype: ME      | BLK       | Tes         | tCode: El | PA Method | 6010B: Soil         | Metals |          | ž                    |
| Client ID:  | PBS                           | Batc  | h ID: 26      | 038       | F           | RunNo: 3  | 5227      |                     |        |          |                      |
| Prep Date:  | 6/23/2016                     | Analysis [  | Date: 6/      | 27/2016   | S           | SeqNo: 1  | 089173    | Units: mg/M         | (g     |          |                      |
| Analyte   |                               | Result  | PQL           | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit           | %RPD   | RPDLimit | Qual                 |
| Arsenic   |                               | ND  | 2.5           |           |             |           |           |                     |        |          |                      |
| Barium  |                               | ND  | 0.10          |           |             |           |           |                     |        |          |                      |
| Cadmium   |                               | ND  | 0.10          |           |             |           |           |                     |        |          |                      |
| Chromium  |                               | ND  | 0.30          |           |             |           |           |                     |        |          |                      |
| Lead  |                               | ND  | 0.25          |           |             |           |           |                     |        |          |                      |
| Selenium  |                               | ND  | 2.5           |           |             |           |           |                     |        |          |                      |
| Silver  |                               | ND  | 0.25          |           |             |           |           |                     |        |          |                      |
| Sample ID   | LCS-26038                     | 8 SampType: LCS TestCode: EPA Method 6010B: Soil Metals |               |           |             |           |           |                     |        |          |                      |
| Client ID:  | LCSS                          | Batch ID: 26038 RunNo: 35227                            |               |           |             |           |           |                     |        |          |                      |
| Prep Date:  | 6/23/2016                     | Analysis E  | Date: 6/      | 27/2016   | 5           | SeqNo: 1  | 089174    | Units: <b>mg/</b> # | ٢g     |          |                      |
| Analyte   |                               | Result  | PQL           | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit           | %RPD   | RPDLimit | Qual                 |
| Arsenic   |                               | 23  | 2.5           | 25.00     | 0           | 93.0      | 80        | 120                 |        |          |                      |
| Barium  |                               | 23  | 0.10          | 25.00     | 0           | 93.0      | 80        | 120                 |        |          |                      |
| Cadmium   |                               | 24  | 0.10          | 25.00     | 0           | 95.4      | 80        | 120                 |        |          |                      |
| Chromium  |                               | 23  | 0.30          | 25.00     | 0           | 92.8      | 80        | 120                 |        |          |                      |
| Lead  |                               | 22  | 0.25          | 25.00     | 0           | 89.1      | 80        | 120                 |        |          |                      |
| Selenium  |                               | 24  | 2.5           | 25.00     | 0           | 95.8      | 80        | 120                 |        |          |                      |
| Silver  |                               | 4.8   | 0.25          | 5.000     | 0           | 95.4      | 80        | 120                 |        |          |                      |
| Sample ID   | 1606B73-001AMS                | Samp  | Type: MS      | ŝ         | Tes         | tCode: El | PA Method | 6010B: Soil         | Metals |          |                      |
| Client ID:  | SR SC-1                       | Batc  | h ID: 26      | 038       | F           | RunNo: 3  | 5227      |                     |        |          |                      |
| Prep Date:  | 6/23/2016                     | Analysis [  | Date: 6/      | 27/2016   | S           | SeqNo: 1  | 089256    | Units: mg/K         | (g     |          |                      |
| Analyte   |                               | Result  | PQL           | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit           | %RPD   | RPDLimit | Qual                 |
| Cadmium   |                               | 20  | 0.099         | 24.81     | 0           | 79.1      | 75        | 125                 |        |          |                      |
| Chromium  |                               | 20  | 0.30          | 24.81     | 1.261       | 76.5      | 75        | 125                 |        |          |                      |
| Silver  |                               | 4.0   | 0.25          | 4.961     | 0           | 81.3      | 75        | 125                 |        |          |                      |
| Sample ID 1606B73-001AMSD SampType: MSD TestCode: EPA Method 6010B: Soil Metals |                               |   |               |           |             |           |           |                     |        |          |                      |

| Sample ID 16  | 606B73-001AMSD | SampTy      | pe: MS  | D         | Tes         | tCode: El | PA Method | 6010B: Soil | Metals |          |      |
|---------------|----------------|-------------|---------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Client ID: SI | R SC-1         | Batch       | ID: 26  | 038       | R           | RunNo: 3  | 5227      |             |        |          |      |
| Prep Date: 6  | 6/23/2016      | Analysis Da | ate: 6/ | 27/2016   | S           | SeqNo: 1  | 089278    | Units: mg/k | (g     |          |      |
| Analyte       |                | Result      | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Cadmium       |                | 21          | 0.10    | 25.14     | 0           | 83.2      | 75        | 125         | 6.36   | 20       |      |
| Chromium      |                | 22          | 0.30    | 25.14     | 1.261       | 83.3      | 75        | 125         | 9.21   | 20       |      |
| Ollins        |                |             |         | F 007     | 0           |           |           | 105         | 100    | 00       |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL **Reporting Detection Limit**

Sample container temperature is out of limit as specified W

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R RPD outside accepted recovery limits

Sample Diluted Due to Matrix

Qualifiers: \* Valu

D

S % Recovery outside of range due to dilution or matrix

Value exceeds Maximum Contaminant Level.

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID  | 1606B73-001AMS | Samp  | ype: MS                      | 5         | Tes         | tCode: E | PA Method | 6010B: Soil | Metals | ,        |      |
|------------|----------------|---|------------------------------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: | SR SC-1        | Batc  | h ID: 26                     | 038       | F           | RunNo: 3 | 5332      |             |        |          |      |
| Prep Date: | 6/23/2016      | Analysis D  | Date: 6/                     | 30/2016   | S           | eqNo: 1  | 093135    | Units: mg/k | ۲g     |          |      |
| Analyte    | 8              | Result  | PQL                          | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| A c        |                | 26  | 2.5                          | 24.81     | 6.922       | 77.0     | 75        | 125         |        |          |      |
| Barium     |                | 61  | 0.099                        | 24.81     | 45.48       | 60.7     | 75        | 125         |        |          | S    |
| L          |                | 23  | 0.25                         | 24.81     | 3.701       | 79.2     | 75        | 125         |        |          |      |
| Selenium   |                | 22  | 2.5                          | 24.81     | 0           | 86.9     | 75        | 125         |        |          |      |
| Sample ID  | 1606B73-001AMS | 001AMSD SampType: MSD TestCode: EPA Method 6010B: Soil Metals |                              |           |             |          |           |             |        |          |      |
| Client ID: | SR SC-1        | Batc  | Batch ID: 26038 RunNo: 35332 |           |             |          |           |             |        |          |      |
| Prep Date: | 6/23/2016      | Analysis D  | )ate: 6/                     | 30/2016   | S           | SeqNo: 1 | 093136    | Units: mg/h | ٢g     |          |      |
| Analyte    |                | Result  | PQL                          | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| A ;        |                | 27  | 2.5                          | 25.14     | 6.922       | 78.0     | 75        | 125         | 1.96   | 20       |      |
| Barium     |                | 83  | 0.10                         | 25.14     | 45.48       | 148      | 75        | 125         | 30.8   | 20       | RS   |
| L          |                | 24  | 0.25                         | 25.14     | 3.701       | 80.3     | 75        | 125         | 2.33   | 20       |      |
| ٤ m        |                | 21  | 2.5                          | 25.14     | 0           | 83.6     | 75        | 125         | 2.56   | 20       |      |
| Sample ID  | 1606B73-001APS | SampT   | ype: PS                      |           | Test        | Code: El | PA Method | 6010B: Soil | Metals |          |      |
| Client ID: | SR SC-1        | Batcl   | h ID: 26                     | 038       | R           | unNo: 3  | 5332      |             |        |          |      |
| Prep Date: |                | Analysis D  | )ate: 6/                     | 30/2016   | S           | eqNo: 1  | 093137    | Units: mg/k | ٢g     |          |      |
| Analyte    |                | Result  | PQL                          | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Rarium     |                | 73  | 0.099                        | 24.82     | 45 48       | 109      | 80        | 120         |        |          |      |

WO#: 1606B73

14-Jul-16

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| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY  | Hall Environmental<br>Albi<br>TEL: 505-345-3975<br>Website: www.ha         | Analysis<br>4901<br>iquerque<br>FAX: 50<br>illenviroi | Laboratory<br>Hawkins NE<br>9, NM 87109<br>05-345-4107<br>nmental.com | Sam                          | ple Log-In Check List  |  |  |
|--|--|---|---|------------------------------|--|--|--|
| Client Name: Enterprise  | Work Order Number:   | 1606E   | 73  |                              | RcptNo: 1  |  |  |
| Received by/date: 2 M  | 06/21/16   |   | 2   |                              |  |  |  |
| Logged By: Joe Archuleta   | 6/21/2016 8:00:00 AM   |   | and a   | ilet                         |  |  |  |
| Completed By: Joe Archuleta<br>Reviewed By: & J  | 6/21/2016 3:04:21 PM<br>6121 116   |   | 11  | · ild                        |  |  |  |
| Chain of Custody   |  |   |   |                              |  |  |  |
| 1. Custody seals intact on sample bottles  | ?  | Yes   | []  | No                           | Not Present  |  |  |
| 2. Is Chain of Custody complete?   |  | Yes   |   | No                           | Not Present  |  |  |
| 3. How was the sample delivered?   |  | Cour  | ier   |                              |  |  |  |
| Log In   |  |   |   |                              |  |  |  |
| 4. Was an attempt made to cool the same  | oles?  | Yes   |   | No                           | NA []  |  |  |
| 5. Were all samples received at a temper   | ature of >0° C to 6.0°C  | Yes   |   | No [ ]                       | NAII   |  |  |
| 6. Sample(s) in proper container(s)?   |  | Yes   |   | No []                        |  |  |  |
| 7. Sufficient sample volume for indicated  | test(s)?   | Yes   |   | No [.]                       |  |  |  |
| 8. Are samples (except VOA and ONG) p  | operly preserved?  | Yes   |   | No []]                       |  |  |  |
| 9. Was preservative added to bottles?  |  | Yes   | $\Box$  | No 🗶                         | NA   |  |  |
| 10.VOA vials have zero headspace?  |  | Yes   |   | No 🗋                         | No VOA Vials   |  |  |
| 11. Were any sample containers received  | broken?  | Yes   |   | No 🛃                         | # of preserved   |  |  |
| 12. Does paperwork match bottle labels?  |  | Yes   |   | No LJ                        | for pH:<br>(<2 or >12 unless noted)  |  |  |
| 13 Are matrices correctly identified on Cha  | in of Custody?   | Yes   |   | No                           | Adjusted?  |  |  |
| 14. Is it clear what analyses were requeste  | d?   | Yes   |   | No []]                       |  |  |  |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization. | )  | Yes   |   | No []]                       | Checked by:  |  |  |
| Special Handling (if applicable)   |  |   |   |                              |  |  |  |
| 16. Was client notified of all discrepancies   | with this order?   | Yes   |   | No [.]                       | NA 😥   |  |  |
| Person Notified:   | Date   | Sick. Shirting  | ana sa ang ang ang ang ang ang ang ang ang an                         | d Milhdel in a Mania of      |  |  |  |
| By Whom:   | Via:   | eMa   | ail [ <sup>-</sup> ] Phone  | e [] Fax                     | In Person  |  |  |
| Regarding:   | han Lindra anyan ing mba matar ana dang bi tahun dalah dalah sa sa         | and an an it infine                                   | is is motorial address of the integration of                          | na dibilari Pinadaran        | n. j. n. population, n. population and a state of the sta |  |  |
| Client Instructions:   | nterel arceletaintaine devatibles allual arcedudi-dia la adidia educanad-d | kin ihaida védentiliika                               | lishe athananin konne the observiced                                  | a dhill ay triumhatharar. ar | sharihaandraa tiladhaa fandaa taharadara abbahaharan, o  |  |  |
| 17. Additional remarks:  |  |   |   |                              |  |  |  |

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 3.5     | Good      | Yes         |         |           |           |

| Operating<br>ailling Address: 614 Reilly Ave.  | Project Name: Truck MD 16 Jach                                     | 4901 Hawkins NE - Albuquerque, NM 87109   |
|--|--|---|
| Demington Nim Btypi  | Project #:   | Tel. 505-345-3975 Fax 505-345-4107  |
| one #: SOS-5599-2286<br>hail or Fax#: Elong e ciprol com<br>VOE Package:<br>Standard | Project Manager:<br>Thomas Long                                    | RO +MRO)<br>RO +MRO)<br>RO +MRO)  |
| NELAP D Other  | Sampler: 7JC<br>On Ice: I Yes I No                                 | <pre>+ TMB + TPH + + TMB 3R0 / D 3R0 / D 5R0 / D 504.1) f s + 18.1) f s + 18.1) f s + 18.1) f s + 18.1) f s + 18.1 f s +</pre>   |
| Pate Time Matrix Sample Request ID   | Container<br>Type and # Preservative<br>Type HEAL No.<br>1606 1373 | BTEX + MTBI<br>BTEX + MTBI<br>TPH 8015B ((<br>TPH (Method<br>EDB (Method<br>PAH's (8310 (<br>PAH's (9310 (<br>PAH's |
| -16 1330 Soil SR SC-1  | 402 Jer 6001 -001  | XXXX  |
| H61205 Lock SR LOS-I   | 2 voa's Hogelg -002  |   |
|  |  |   |
| e: Time Relinquished by.   | Received by: Date, Time<br>DE Z4 4 0800                            | Remarks:  |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

June 29, 2016

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

RE: Trunk MD 16" Hydro

OrderNo.: 1606B27

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/21/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1606B27 Date Reported: 6/29/2016

٠

# Hall Environmental Analysis Laboratory, Inc.

| Analyses        |                    | Result  | PQL  | Qual | Units      | <b>DF</b> Date Analyzed     | Batch |
|-----------------|--------------------|---------|------|------|------------|-----------------------------|-------|
| Lab ID:         | 1606B27-001        | Matrix: | SOIL |      | Received   | Date: 6/21/2016 8:00:00 AM  |       |
| <b>Project:</b> | Trunk MD 16" Hydro |         |      |      | Collection | Date: 6/20/2016 10:50:00 AM |       |
| CLIENT:         | APEX TITAN         |         |      | C    | lient Samp | ole ID: FP-1                |       |
|                 |                    |         |      |      |            |                             |       |

| The second s |  | the state of the s | والماسية والمتحدة والمتحد والمرابقة المتحدين والم  |  | the second s  |
|--|--|--|--|--|---|
|  |  |  |  | Analyst:   | LGT   |
| ND   | 30   | mg/Kg  | 20   | 6/24/2016 5:02:07 AM   | 26042   |
| ORGANIC  | S  |  |  | Analyst  | JME   |
| ND   | 9.8  | mg/Kg  | 1  | 6/23/2016 4:46:52 PM   | 25944   |
| 108  | 70-130   | %Rec   | 1  | 6/23/2016 4:46:52 PM   | 25944   |
|  |  |  |  | Analyst  | DJF   |
| ND   | 5.0  | mg/Kg  | 1  | 6/22/2016 5:00:53 PM   | 25976   |
| 99.4   | 80-120   | %Rec   | 1  | 6/22/2016 5:00:53 PM   | 25976   |
|  |  |  |  | Analyst:   | DJF   |
| ND   | 0.025  | mg/Kg  | 1  | 6/22/2016 5:00:53 PM   | 25976   |
| ND   | 0.050  | mg/Kg  | 1  | 6/22/2016 5:00:53 PM   | 25976   |
| ND   | 0.050  | mg/Kg  | 1  | 6/22/2016 5:00:53 PM   | 25976   |
| ND   | 0.10   | mg/Kg  | 1  | 6/22/2016 5:00:53 PM   | 25976   |
| 95.1   | 80-120   | %Rec   | 1  | 6/22/2016 5:00:53 PM   | 25976   |
|  | ND<br>DRGANIC<br>ND<br>108<br>ND<br>99.4<br>ND<br>ND<br>ND<br>ND<br>95.1 | ND         30           DRGANICS         9.8           ND         9.8           108         70-130           ND         5.0           99.4         80-120           ND         0.025           ND         0.050           ND         0.1050           ND         0.10           95.1         80-120  | ND         30         mg/Kg           DRGANICS         ND         9.8         mg/Kg           ND         70-130         %Rec           ND         5.0         mg/Kg           99.4         80-120         %Rec           ND         0.025         mg/Kg           ND         0.050         mg/Kg           ND         0.050         mg/Kg           ND         0.10         mg/Kg           95.1         80-120         %Rec | ND         30         mg/Kg         20           DRGANICS         ND         9.8         mg/Kg         1           108         70-130         %Rec         1           ND         5.0         mg/Kg         1           99.4         80-120         %Rec         1           ND         0.025         mg/Kg         1           ND         0.050         mg/Kg         1           ND         0.050         mg/Kg         1           ND         0.10         mg/Kg         1           95.1         80-120         %Rec         1 | Analyst:           ND         30         mg/Kg         20         6/24/2016 5:02:07 AM           DRGANICS         Analyst:           ND         9.8         mg/Kg         1         6/23/2016 4:46:52 PM           108         70-130         %Rec         1         6/23/2016 4:46:52 PM           ND         9.8         mg/Kg         1         6/23/2016 4:46:52 PM           ND         5.0         mg/Kg         1         6/22/2016 5:00:53 PM           ND         5.0         mg/Kg         1         6/22/2016 5:00:53 PM           99.4         80-120         %Rec         1         6/22/2016 5:00:53 PM           Analyst:           ND         0.025         mg/Kg         1         6/22/2016 5:00:53 PM           ND         0.050         mg/Kg         1         6/22/2016 5:00:53 PM           ND         0.050         mg/Kg         1         6/22/2016 5:00:53 PM           ND         0.050         mg/Kg         1         6/22/2016 5:00:53 PM           ND         0.10         mg/Kg         1         6/22/2016 5:00:53 PM           ND         0.10         mg/Kg         1         6/22/2016 5:00:53 PM           95.1 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method    | Blank           |
|-------------|----|---|----|--|-----------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |                 |
|             | н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 1 of 9     |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | rage rory       |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit | it as specified |
|             |    |   |    |  |                 |

Date Reported: 6/29/2016

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: FP-2

 Project:
 Trunk MD 16" Hydro
 Collection Date: 6/20/2016 11:00:00 AM

 Lab ID:
 1606B27-002
 Matrix: SOIL
 Received Date: 6/21/2016 8:00:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

| EPA METHOD 300.0: ANIONS            |       |        |       |    | Analyst              | LGT   |
|-------------------------------------|-------|--------|-------|----|----------------------|-------|
| Chloride                            | ND    | 30     | mg/Kg | 20 | 6/24/2016 5:14:31 AM | 26042 |
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANI | CS     |       |    | Analyst              | JME   |
| Diesel Range Organics (DRO)         | 21    | 9.9    | mg/Kg | 1  | 6/23/2016 5:08:37 PM | 25944 |
| Surr: DNOP                          | 107   | 70-130 | %Rec  | 1  | 6/23/2016 5:08:37 PM | 25944 |
| EPA METHOD 8015D: GASOLINE RANGE    |       |        |       |    | Analyst              | DJF   |
| Gasoline Range Organics (GRO)       | ND    | 4.8    | mg/Kg | 1  | 6/22/2016 6:11:39 PM | 25976 |
| Surr: BFB                           | 97.6  | 80-120 | %Rec  | 1  | 6/22/2016 6:11:39 PM | 25976 |
| EPA METHOD 8021B: VOLATILES         |       |        |       |    | Analyst              | DJF   |
| Benzene                             | ND    | 0.024  | mg/Kg | 1  | 6/22/2016 6:11:39 PM | 25976 |
| Toluene                             | ND    | 0.048  | mg/Kg | 1  | 6/22/2016 6:11:39 PM | 25976 |
| Ethylbenzene                        | ND    | 0.048  | mg/Kg | 1  | 6/22/2016 6:11:39 PM | 25976 |
| Xylenes, Total                      | ND    | 0.097  | mg/Kg | 1  | 6/22/2016 6:11:39 PM | 25976 |
| Surr: 4-Bromofluorobenzene          | 96.3  | 80-120 | %Rec  | 1  | 6/22/2016 6:11:39 PM | 25976 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method B    | lank         |
|-------------|----|---|----|--|--------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                 |              |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits     | Page 2 of Q  |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                         | 1 age 2 01 7 |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                      |              |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit a | as specified |
|             |    |   |    |  |              |

Analytical Report Lab Order 1606B27 Date Reported: 6/29/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITANClient Sample ID: FP-3Project:Trunk MD 16" HydroLab ID:1606B27-003Matrix: SOILReceived Date: 6/21/2016 8:00:00 AM

| <b>_GT</b><br>26073 |
|---------------------|
| 26073               |
|                     |
| JME                 |
| 25944               |
| 25944               |
| JJF                 |
| 25976               |
| 25976               |
| OJF                 |
| 25976               |
| 25976               |
| 25976               |
| 25976               |
| 25976               |
|                     |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 3 of 9    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | w  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

Analytical Report Lab Order 1606B27 Date Reported: 6/29/2016

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: FP-4

 Project: Trunk MD 16" Hydro
 Collection Date: 6/20/2016 11:20:00 AM

 Lab ID: 1606B27-004
 Matrix: SOIL
 Received Date: 6/21/2016 8:00:00 AM

| Result  | PQL Qual   | Units  | DF  | Date Analyzed  | Batch   |
|---------|--|--|---|--|---|
|         |  |  |   | Analyst  | LGT   |
| ND      | 30   | mg/Kg  | 20  | 6/24/2016 12:28:05 PM  | 26073   |
| ORGANIC | S  |  |   | Analyst:   | JME   |
| ND      | 10   | mg/Kg  | 1   | 6/23/2016 5:52:18 PM   | 25944   |
| 109     | 70-130   | %Rec   | 1   | 6/23/2016 5:52:18 PM   | 25944   |
| E       |  |  |   | Analyst:   | DJF   |
| ND      | 4.7  | mg/Kg  | 1   | 6/22/2016 7:46:09 PM   | 25976   |
| 102     | 80-120   | %Rec   | 1   | 6/22/2016 7:46:09 PM   | 25976   |
|         |  |  |   | Analyst:   | DJF   |
| ND      | 0.023  | mg/Kg  | 1   | 6/22/2016 7:46:09 PM   | 25976   |
| ND      | 0.047  | mg/Kg  | 1   | 6/22/2016 7:46:09 PM   | 25976   |
| ND      | 0.047  | mg/Kg  | 1   | 6/22/2016 7:46:09 PM   | 25976   |
| ND      | 0.094  | mg/Kg  | 1   | 6/22/2016 7:46:09 PM   | 25976   |
| 96.8    | 80-120   | %Rec   | 1   | 6/22/2016 7:46:09 PM   | 25976   |
|         | Result<br>ND<br>ORGANIC<br>ND<br>109<br>E<br>ND<br>102<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>96.8 | Result         PQL         Qual           ND         30         000000000000000000000000000000000000 | Result         PQL         Qual         Units           ND         30         mg/Kg           ORGANICS         mg/Kg           ND         10         mg/Kg           109         70-130         %Rec           ND         4.7         mg/Kg           102         80-120         %Rec           ND         0.023         mg/Kg           ND         0.047         mg/Kg           ND         0.094         mg/Kg           ND         0.994         mg/Kg | Result         PQL         Qual         Units         DF           ND         30         mg/Kg         20           ORGANICS | Result         PQL         Qual         Units         DF         Date Analyzed           ND         30         mg/Kg         20         6/24/2016 12:28:05 PM           ORGANICS         Analyst:           ND         10         mg/Kg         1         6/23/2016 5:52:18 PM           109         70-130         %Rec         1         6/23/2016 5:52:18 PM           ND         10         mg/Kg         1         6/23/2016 5:52:18 PM           109         70-130         %Rec         1         6/22/2016 5:52:18 PM           ND         4.7         mg/Kg         1         6/22/2016 7:46:09 PM           102         80-120         %Rec         1         6/22/2016 7:46:09 PM           ND         0.023         mg/Kg         1         6/22/2016 7:46:09 PM           ND         0.047         mg/Kg         1         6/22/2016 7:46:09 PM           ND         0.047         mg/Kg         1         6/22/2016 7:46:09 PM           ND         0.047         mg/Kg         1         6/22/2016 7:46:09 PM           ND         0.094         mg/Kg         1         6/22/2016 7:46:09 PM           ND         0.094         mg/Kg         1         6/22/2016 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level.       |
|-------------|---|--|
|             | D | Sample Diluted Due to Matrix                   |
|             | Н | Holding times for preparation or analysis exce |

- H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1606B27

29-Jun-16

| пап | CIIVII | onmental | Analysis | Laborato | ry, |
|-----|--------|----------|----------|----------|-----|
|     |        |          |          |          |     |

| Client:  | APEX TITAN         |
|----------|--------------------|
| Project: | Trunk MD 16" Hydro |

|  |  |  |   |   |  |  |  |  | the second s |          |      |
|--|--|--|---|---|--|--|--|--|--|----------|------|
| Sample ID  | MB-26042   | SampTy   | ype: MB   | LK  | Tes  | tCode: E   | PA Method  | 300.0: Anion   | S  |          |      |
| Client ID:   | PBS  | Batch  | ID: 260   | 042   | F  | RunNo: 3   | 5149   |  |  |          |      |
| Prep Date:   | 6/23/2016  | Analysis Da  | ate: 6/2  | 23/2016   | 5  | SeqNo: 1   | 087334   | Units: mg/M  | (g   |          |      |
| Analyte  |  | Result   | PQL   | SPK value   | SPK Ref Val  | %REC   | LowLimit   | HighLimit  | %RPD   | RPDLimit | Qual |
| Chloride   |  | ND   | 1.5   |   |  |  |  |  |  |          |      |
| Sample ID  | LCS-26042  | SampTy   | ype: LC   | s   | Tes  | tCode: E   | PA Method  | 300.0: Anion   | s  |          |      |
| Client ID:   | LCSS   | Batch  | ID: 260   | )42   | F  | RunNo: 3   | 5149   |  |  |          |      |
| Prep Date:   | 6/23/2016  | Analysis Da  | ate: 6/2  | 23/2016   | S  | SeqNo: 1   | 087335   | Units: mg/k  | (g   |          |      |
| Analyte  |  | Result   | PQL   | SPK value   | SPK Ref Val  | %REC   | LowLimit   | HighLimit  | %RPD   | RPDLimit | Qual |
| Chlorido   |  |  |   | 15.00   | 0  | 00.0   | 00   | 440  |  |          |      |
| Chionde  |  | 14   | 1.5   | 15.00   | 0  | 93.6   | 90   | 110  |  |          |      |
| Sample ID  | MB-26073   | 14<br>SampTy   | 1.5<br>ype: MB  | 15.00   | 0<br>Tes   | 93.6<br>tCode: E   | 90<br>PA Method  | 300.0: Anion   | s  |          |      |
| Sample ID<br>Client ID:  | MB-26073<br>PBS  | 14<br>SampTy<br>Batch  | 1.5<br>ype: MB<br>ID: 260   | 15.00<br>BLK<br>073   | Tes  | tCode: E<br>RunNo: 3   | 90<br>PA Method<br>5186  | 300.0: Anion   | S  |          |      |
| Sample ID<br>Client ID:<br>Prep Date:  | MB-26073<br>PBS<br>6/24/2016                                   | 14<br>SampTy<br>Batch<br>Analysis Da   | 1.5<br>ype: MB<br>ID: 260<br>ate: 6/2   | 15.00<br>SLK<br>073<br>24/2016  | U<br>Tes<br>F                                      | tCode: E<br>RunNo: 3<br>SeqNo: 1   | 90<br>PA Method<br>5186<br>088718  | 300.0: Anion<br>Units: mg/K  | s  |          |      |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte   | MB-26073<br>PBS<br>6/24/2016                                   | 14<br>SampTy<br>Batch<br>Analysis Da<br>Result   | 1.5<br>ype: MB<br>ID: 260<br>ate: 6/2<br>PQL  | 15.00<br>BLK<br>073<br>24/2016<br>SPK value                                     | U<br>Tes<br>F<br>SPK Ref Val                       | 93.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC   | 90<br>PA Method<br>5186<br>088718<br>LowLimit  | 300.0: Anion<br>Units: mg/K<br>HighLimit   | s<br>(g<br>%RPD  | RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Chloride   | MB-26073<br>PBS<br>6/24/2016                                   | 14<br>SampTy<br>Batch<br>Analysis Da<br>Result<br>ND   | 1.5<br>ype: MB<br>ID: 260<br>ate: 6/2<br>PQL<br>1.5   | 15.00<br>BLK<br>073<br>24/2016<br>SPK value                                     | U<br>Tes<br>F<br>SPK Ref Val                       | 93.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC   | 90<br>PA Method<br>5186<br>088718<br>LowLimit  | 300.0: Anion<br>Units: mg/K<br>HighLimit   | s<br>(g<br>%RPD  | RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Chloride   | MB-26073<br>PBS<br>6/24/2016<br>LCS-26073                      | 14<br>SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>SampTy                                   | 1.5<br>ype: MB<br>ID: 260<br>ate: 6/2<br>PQL<br>1.5<br>ype: LC:                               | 15.00<br>BLK<br>073<br>24/2016<br>SPK value                                     | U<br>Tes<br>F<br>SPK Ref Val<br>Tes                | 93.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>%REC                                     | 90<br>PA Method<br>5186<br>088718<br>LowLimit<br>PA Method                               | 300.0: Anion<br>Units: mg/K<br>HighLimit<br>300.0: Anion                             | s<br>(g<br>%RPD<br>s   | RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Chloride<br>Sample ID<br>Client ID:                          | MB-26073<br>PBS<br>6/24/2016<br>LCS-26073<br>LCSS              | 14<br>SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>SampTy<br>Batch                          | 1.5<br>ype: MB<br>ID: 260<br>ate: 6/2<br>PQL<br>1.5<br>ype: LC:<br>ID: 260                    | 15.00<br>BLK<br>073<br>24/2016<br>SPK value<br>S<br>S                           | U<br>Tes<br>SPK Ref Val<br>Tes<br>F                | 93.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>tCode: E<br>RunNo: 3                     | 90<br>PA Method<br>5186<br>088718<br>LowLimit<br>PA Method<br>5186                       | 300.0: Anion<br>Units: mg/K<br>HighLimit<br>300.0: Anion                             | s<br>(g<br>%RPD<br>s   | RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Chloride<br>Sample ID<br>Client ID:<br>Prep Date:            | MB-26073<br>PBS<br>6/24/2016<br>LCS-26073<br>LCSS<br>6/24/2016 | 14<br>SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>SampTy<br>Batch<br>Analysis Da           | 1.5<br>ype: MB<br>ID: 260<br>ate: 6/2<br>PQL<br>1.5<br>ype: LC:<br>ID: 260<br>ate: 6/2        | 15.00<br>3LK<br>373<br>24/2016<br>SPK value<br>S<br>373<br>24/2016              | U<br>Tes<br>SPK Ref Val<br>Tes<br>F                | 93.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>tCode: E<br>RunNo: 3<br>SeqNo: 1         | 90<br>PA Method<br>5186<br>088718<br>LowLimit<br>PA Method<br>5186<br>088719             | 300.0: Anion<br>Units: mg/k<br>HighLimit<br>300.0: Anion<br>Units: mg/k              | s<br>%g<br>%RPD<br>s   | RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Chloride<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte | MB-26073<br>PBS<br>6/24/2016<br>LCS-26073<br>LCSS<br>6/24/2016 | 14<br>SampTy<br>Batch<br>Analysis Da<br>Result<br>ND<br>SampTy<br>Batch<br>Analysis Da<br>Result | 1.5<br>ype: MB<br>ID: 260<br>ate: 6/2<br>PQL<br>1.5<br>ype: LC:<br>ID: 260<br>ate: 6/2<br>PQL | 15.00<br>BLK<br>073<br>24/2016<br>SPK value<br>S<br>073<br>24/2016<br>SPK value | U<br>Tes<br>SPK Ref Val<br>Tes<br>F<br>SPK Ref Val | 93.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC | 90<br>PA Method<br>5186<br>088718<br>LowLimit<br>PA Method<br>5186<br>088719<br>LowLimit | 300.0: Anion<br>Units: mg/K<br>HighLimit<br>300.0: Anion<br>Units: mg/K<br>HighLimit | s<br>(g<br>%RPD<br>s<br>(g<br>%RPD   | RPDLimit | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
  - P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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# QC SUMMARY REPORT

| Hall | Environmental | Analysis | Laboratory, | Inc. |
|------|---------------|----------|-------------|------|
|------|---------------|----------|-------------|------|

WO#: 1606B27

29-Jun-16

**Client:** APEX TITAN **Project:** Trunk MD 16" Hydro Sample ID MB-25944 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 25944 RunNo: 35116 Prep Date: Analysis Date: 6/23/2016 Units: mg/Kg 6/20/2016 SeqNo: 1086562 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual Range Organics (DRO) ND 10 Surr: DNOP 8.8 10.00 88.1 70 130 Sample ID LCS-25944 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 25944 RunNo: 35116 Prep Date: 6/20/2016 Analysis Date: 6/23/2016 SeqNo: 1086657 Units: mg/Kg %REC %RPD RPDLimit Result PQL SPK value SPK Ref Val LowLimit HighLimit Analyte Qual 38 **Diesel Range Organics (DRO)** 10 50.00 0 75.2 62.6 124 Surr: DNOP 4.4 5.000 87.1 70 130

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 9

| QC SUM    | IMARY REPORT                     |     |
|-----------|----------------------------------|-----|
| Hall Envi | ronmental Analysis Laboratory, I | nc. |

WO#: 1606B27

29-Jun-16

| Client: APEX   | TITAN                    |                                     |                       |  |  |
|--|--------------------------|-------------------------------------|-----------------------|--|--|
| Project: Trunk N   | MD 16" Hydro             |                                     |                       |  |  |
| Sample ID MB-25976   | SampType: MBLK           | TestCode: EPA Method 8015D: G       | asoline Range         |  |  |
| Client ID: PBS   | Batch ID: 25976          | RunNo: 35097                        |                       |  |  |
| Prep Date: 6/21/2016   | Analysis Date: 6/22/2016 | SeqNo: 1085943 Units: m             | g/Kg                  |  |  |
| Analyte  | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLim   | t %RPD RPDLimit Qual  |  |  |
| Gasoline Range Organics (GRO)  | ND 5.0                   |                                     |                       |  |  |
| Surr: BFB  | 1000 1000                | 101 80 12                           | )                     |  |  |
| Sample ID 1606B27-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range |                          |                                     |                       |  |  |
| Client ID: FP-2  | Batch ID: 25976          | RunNo: 35097                        |                       |  |  |
| Prep Date: 6/21/2016   | Analysis Date: 6/22/2016 | SeqNo: 1085947 Units: m             | g/Kg                  |  |  |
| Analyte  | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLim   | t %RPD RPDLimit Qual  |  |  |
| Gasoline Range Organics (GRO)  | 23 5.0 24.83             | 0 94.2 59.3 14                      | 3                     |  |  |
| Surr: BFB  | 1100 993.0               | 106 80 12                           | )                     |  |  |
| Sample ID 1606B27-002AM  | ISD SampType: MSD        | TestCode: EPA Method 8015D: Ga      | soline Range          |  |  |
| Client ID: FP-2  | Batch ID: 25976          | RunNo: 35097                        |                       |  |  |
| Prep Date: 6/21/2016   | Analysis Date: 6/22/2016 | SeqNo: 1085948 Units: m             | g/Kg                  |  |  |
| Analyte  | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimi  | t %RPD RPDLimit Qual  |  |  |
| Gasoline Range Organics (GRO)  | 24 4.7 23.56             | 0 99.9 59.3 14                      | 3 0.589 20            |  |  |
| Surr: BFB  | 1100 942.5               | 118 80 12                           | ) 0 0                 |  |  |
| Sample ID LCS-25976  | SampType: LCS            | TestCode: EPA Method 8015D: Ga      | soline Range          |  |  |
| Client ID: LCSS  | Batch ID: 25976          | RunNo: 35174                        |                       |  |  |
| Prep Date: 6/21/2016   | Analysis Date: 6/25/2016 | SeqNo: 1088116 Units: m             | g/Kg                  |  |  |
| Analyte  | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimi  | t %RPD RPDLimit Qual  |  |  |
| Gasoline Range Organics (GRO)  | 29 5.0 25.00             | 0 116 80 12                         | )                     |  |  |
| Surr: BFB  | 1100 1000                | 107 80 120                          | )                     |  |  |
| Sample ID LCS-26055  | SampType: LCS            | TestCode: EPA Method 8015D: Ga      | soline Range          |  |  |
| Client ID: LCSS  | Batch ID: 26055          | RunNo: 35174                        |                       |  |  |
| Prep Date: 6/24/2016   | Analysis Date: 6/25/2016 | SeqNo: 1088117 Units: %             | Rec                   |  |  |
| Analyte  | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimi  | t %RPD RPDLimit Qual  |  |  |
| Surr: BFB  | 1100 1000                | 107 80 120                          | )                     |  |  |
| Sample ID MB-26055   | SampType: MBLK           | TestCode: EPA Method 8015D: Ga      | soline Range          |  |  |
| Client ID: PBS   | Batch ID: 26055          | RunNo: 35174                        |                       |  |  |
| Prep Date: 6/24/2016   | Analysis Date: 6/25/2016 | SeqNo: 1088118 Units: %             | Rec                   |  |  |
| Analyte  |                          | SPK Ref Val %REC Low imit High imit | t %RPD RPDI imit Qual |  |  |
| Surr: BFB  | 970 1000                 | 97.4 80 120                         | )                     |  |  |

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
  - Page 7 of 9
- P Sample pH Not In RangeRL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| QC SUMMARY REPORT | • |
|-------------------|---|
|-------------------|---|

| Hall Environmental Analysis Laboratory, Inc |  |
|---|--|
|---|--|

WO#: 1606B27

29-Jun-16

| Client:<br>Project: | APEX TI<br>Trunk MI | TAN<br>D 16" Hyd | lro      |           |                                       |              |           |             |               |          |      |  |
|---------------------|---------------------|------------------|----------|-----------|---------------------------------------|--------------|-----------|-------------|---------------|----------|------|--|
| Sample ID           | MB-25976            | SampT            | BLK      | Tes       | TestCode: EPA Method 8021B: Volatiles |              |           |             |               |          |      |  |
| Client ID:          | PBS                 | Batch            | n ID: 25 | 976       | F                                     | RunNo: 35097 |           |             |               |          |      |  |
| Prep Date:          | 6/21/2016           | Analysis D       | ate: 6   | /22/2016  | 5                                     | SeqNo: 1     | 085953    | Units: mg/l | ۲g            |          |      |  |
| Analyte             |                     | Result           | PQL      | SPK value | SPK Ref Val                           | %REC         | LowLimit  | HighLimit   | %RPD          | RPDLimit | Qual |  |
| Benzene             |                     | ND               | 0.025    |           |                                       |              |           |             |               |          |      |  |
| Toluene             |                     | ND               | 0.050    |           |                                       |              |           |             |               |          |      |  |
| Ethylbenzene        |                     | ND               | 0.050    |           |                                       |              |           |             |               |          |      |  |
| ) es, Total         |                     | ND               | 0.10     |           |                                       |              |           |             |               |          |      |  |
| Surr: 4-Bron        | nofluorobenzene     | 0.98             |          | 1.000     |                                       | 97.5         | 80        | 120         |               |          |      |  |
| Sample ID           | LCS-25976           | SampT            | ype: LO  | CS        | Tes                                   | tCode: E     | PA Method | 8021B: Vola | tiles         |          |      |  |
| Client ID:          | LCSS                | Batch            | n ID: 25 | 976       | F                                     | RunNo: 3     | 5097      |             |               |          |      |  |
| Prep Date:          | 6/21/2016           | Analysis D       | ate: 6   | /22/2016  | 5                                     | SeqNo: 1     | 085954    | Units: mg/l | <b>&lt;</b> g |          |      |  |
| Analyte             |                     | Result           | PQL      | SPK value | SPK Ref Val                           | %REC         | LowLimit  | HighLimit   | %RPD          | RPDLimit | Qual |  |
| Benzene             |                     | 0.95             | 0.025    | 1.000     | 0                                     | 94.7         | 75.3      | 123         |               |          |      |  |
| Toluene             |                     | 0.98             | 0.050    | 1.000     | 0                                     | 97.7         | 80        | 124         |               |          |      |  |
| Ethylbenzene        |                     | 0.99             | 0.050    | 1.000     | 0                                     | 99.4         | 82.8      | 121         |               |          |      |  |
| Xylenes, Total      |                     | 2.9              | 0.10     | 3.000     | 0                                     | 98.2         | 83.9      | 122         |               |          |      |  |
| Surr: 4-Bron        | nofluorobenzene     | 1.0              |          | 1.000     |                                       | 103          | 80        | 120         |               |          |      |  |
| Sample ID           | 1606B27-001AMS      | SampT            | ype: M   | S         | Tes                                   | tCode: E     | PA Method | 8021B: Vola | tiles         |          |      |  |
| Client ID:          | FP-1                | Batch            | n ID: 25 | 976       | F                                     | RunNo: 3     | 5097      |             |               |          |      |  |
| Prep Date:          | 6/21/2016           | Analysis D       | ate: 6   | /22/2016  | 5                                     | SeqNo: 1     | 085956    | Units: mg/k | (g            |          |      |  |
| Analyte             |                     | Result           | PQL      | SPK value | SPK Ref Val                           | %REC         | LowLimit  | HighLimit   | %RPD          | RPDLimit | Qual |  |
| Benzene             |                     | 0.96             | 0.023    | 0.9285    | 0                                     | 103          | 71.5      | 122         |               |          |      |  |
| Toluene             |                     | 0.98             | 0.046    | 0.9285    | 0                                     | 106          | 71.2      | 123         |               |          |      |  |
| Ethylbenzene        |                     | 0.99             | 0.046    | 0.9285    | 0                                     | 107          | 75.2      | 130         |               |          |      |  |
| Xylenes, Total      |                     | 2.9              | 0.093    | 2.786     | 0.01671                               | 103          | 72.4      | 131         |               |          |      |  |
| Surr: 4-Brom        | nofluorobenzene     | 0.94             |          | 0.9285    |                                       | 101          | 80        | 120         |               |          |      |  |
| Sample ID           | 1606B27-001AMS      | D SampT          | ype: M   | SD        | Tes                                   | tCode: E     | PA Method | 8021B: Vola | tiles         |          |      |  |
| Client ID:          | FP-1                | Batch            | n ID: 25 | 976       | F                                     | RunNo: 3     | 5097      |             |               |          |      |  |
| Prep Date:          | 6/21/2016           | Analysis D       | ate: 6   | /22/2016  | 5                                     | SeqNo: 1     | 085957    | Units: mg/h | (g            |          |      |  |
| Analyte             |                     | Result           | PQL      | SPK value | SPK Ref Val                           | %REC         | LowLimit  | HighLimit   | %RPD          | RPDLimit | Qual |  |
| Benzene             |                     | 0.95             | 0.024    | 0.9785    | 0                                     | 97.1         | 71.5      | 122         | 0.686         | 20       |      |  |
| Toluene             |                     | 1.0              | 0.049    | 0.9785    | 0                                     | 102          | 71.2      | 123         | 1.71          | 20       |      |  |
| Ethylbenzene        |                     | 1.0              | 0.049    | 0.9785    | 0                                     | 105          | 75.2      | 130         | 3.94          | 20       |      |  |
| Xylenes, Total      |                     | 3.0              | 0.098    | 2.935     | 0.01671                               | 103          | 72.4      | 131         | 5.38          | 20       |      |  |
| Surr: 4-Brom        | ofluorobenzene      | 0.98             |          | 0.9785    |                                       | 100          | 80        | 120         | 0             | 0        |      |  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range E
- J Analyte detected below quantitation limits Р
  - Sample pH Not In Range

Page 8 of 9

- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

WO#: 1606B27

29-Jun-16

## Hall Environmental Analysis Laboratory, Inc.

| Client:  | APEX TITAN         |
|----------|--------------------|
| Project: | Trunk MD 16" Hydro |

| Sample ID LCS-26055        | SampType: LCS            | TestCode: EPA Method      | 8021B: Volatiles | •             |
|----------------------------|--------------------------|---------------------------|------------------|---------------|
| Client ID: LCSS            | Batch ID: 26055          | RunNo: 35174              |                  |               |
| Prep Date: 6/24/2016       | Analysis Date: 6/25/2016 | SeqNo: 1088135            | Units: %Rec      |               |
| Analyte                    | Result PQL SPK value     | SPK Ref Val %REC LowLimit | HighLimit %RPD   | RPDLimit Qual |
| Surr: 4-Bromofluorobenzene | 0.99 1.000               | 98.6 80                   | 120              |               |
| Sample ID MB-26055         | SampType: MBLK           | TestCode: EPA Method      | 8021B: Volatiles |               |
| Client ID: PBS             | Batch ID: 26055          | RunNo: 35174              |                  |               |
| Prep Date: 6/24/2016       | Analysis Date: 6/25/2016 | SeqNo: 1088136            | Units: %Rec      |               |
| Analyte                    | Result PQL SPK value     | SPK Ref Val %REC LowLimit | HighLimit %RPD   | RPDLimit Qual |
| Surr: 4-Bromofluorobenzene | 0.94 1.000               | 94.4 80                   | 120              |               |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 9 of 9

| ANALYSIS<br>LABORATORY  | rtai Environmental A<br>Albuq<br>TEL: 505-545-3973 I<br>Website: www.hall | naussa<br>4901<br>puerqui<br>AX: 3<br>enviro | 5 Laoormory<br>Hawkins NE<br>2, NM 87109<br>05-345-4107<br>nmental.com | Sa    | mple Log-Ir    | n Check List             |
|---|---|--|--|-------|----------------|--------------------------|
| Client Name: APEX AZTEC   | Work Order Numper:  | 1606   | 327  |       | Rcp            | tNo: 1                   |
| Received by/date:   | 042111  | f  |  |       |                |                          |
| Logged By: Ashley Gallegos 6  | 21/2016 8:00:00 AM  |  | - A  | 8     | ,              |                          |
| Completed By: Ashley Gallegos 6   | 21/2016 10:13:59 AM   |  | A  | 7     |                |                          |
| Reviewed By: US   | 5121116   |  |  | •     |                |                          |
| Chain of Custody  |   |  |  |       |                |                          |
| 1. Custody seals intact on sample bottles?  |   | Yes  |  | No    | Not Present    |                          |
| 2. Is Chain of Custody complete?  |   | Yes  | 8  | No    | Nct Present    | (_]                      |
| 3. How was the sample delivered?  |   | Cour   | ier  |       |                |                          |
| Log In  |   |  |  |       |                |                          |
| 4. Was an attempt made to cool the samples?   |   | Yes  | 1  | No    | NA             | 1                        |
| 5. Were all samples received at a temperature of  | of >0° C to 6.0°C   | Yes  | $\checkmark$   | No    | NA             |                          |
| 6. Sample(s) in proper container(s)?  |   | Yes  |  | No    | ]              |                          |
| 7. Sufficient sample volume for indicated test(s)   | ?   | Yes  |  | No    | ]              |                          |
| 8. Are samples (except VOA and ONG) properly  | preserved?  | Yes  | $\checkmark$   | No    |                |                          |
| 9. Was preservative added to bottles?   |   | Yes  |  | No ¥  | NA             |                          |
| 10.VOA vials have zero headspace?   |   | Yes  |  | No    | No VOA Vials   | $\checkmark$             |
| 11. Were any sample containers received broken  | ?   | Yes  | $\Box$   | No N  | E              |                          |
|   |   |  | A  |       | bottles checke | d                        |
| 12. Does paperwork match bottle labels?   |   | Yes  |  | No    | for pH:        | (<2 or >12 unless noted) |
| 13 Are matrices correctly identified on Chain of C  | ustody?   | Yes  | <b>v</b>   | NO    | Adjusted       | 1?                       |
| 14. Is it clear what analyses were requested?   |   | Yes  | ~  | No    | ]              |                          |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) |   | Yes  |  | No    | Checked        | by.                      |
| Special Handling (if applicable)  |   |  |  |       |                |                          |
| 16. Was client notified of all discrepancies with th                                      | is order?   | Yes  |  | No    | ] <b>NA</b>    |                          |
| Person Notified:  | Date  |  |  |       | -              |                          |
| By Whom:  | Via:  | eMa  | iil 🔄 Phone  | L] F  | ax I In Person |                          |
| Regarding:  |   |  |  |       |                |                          |
| 17. Additional remarks:   |   |  |  |       |                |                          |
| 18. <u>Cooler Information</u><br>Cooler No I Temp ℃ I Condition I Sea                     | al Intact   Seal No   S   | eal D:                                       | nte Sign   | ed Bv |                |                          |
| 1 4.8 Good Yes  | 000.100 0   |  | ug ug  | 201   |                |                          |
|   |   |  |  |       |                |                          |

Page 1 of 1

|         |             |            |       |        |                   |                           |                |        |        |             |            |             |     |            |      |     |  |         |     | CH/ | AIN OF | CUSTO               | DY RECO      |
|---------|-------------|------------|-------|--------|-------------------|---------------------------|----------------|--------|--------|-------------|------------|-------------|-----|------------|------|-----|--|---------|-----|-----|--------|---------------------|--------------|
| AF      | PEX         |            |       |        |                   | Laboratory:<br>Address: _ | Ho             | 11 E   | invi   | renn<br>que | rer<br>i M | nta<br>M    |     | AN/<br>Red | QUE  | SIS |  |         |     |     |        | Lab use<br>Due Date | coolers      |
| Office  | Location    | nA         | 12-   | rec    | NM                |                           | ٨              | -      |        |             |            |             | -   |            |      |     |  |         | / / | /   | / /    | when rece           | 13 4 5       |
|         |             |            |       |        |                   | Contact:                  | A              | Tre    | em     | ar          |            |             |     |            |      | 1   | 3/   | / /     | /   | /   |        | . <u>.</u>          | 1 1          |
|         |             | V          | <     |        |                   | Phone:                    |                |        |        |             |            |             | -   |            |      | /   | 9/   | / /     | /   | / / |        | Page_               | 1 01         |
| Projec  | ct Manag    | jer        | 124   | m      | mers              | PO/SO #: _                | ature          |        |        |             |            |             |     |            | à    |     |  | / /     | / / | / / |        |                     |              |
| Ra      | ne o To     | hill       |       |        | 1                 | PA                        | 10             | 1      |        |             |            |             |     |            | 87   | ŧ   | 17/  | / /     | / / |     | /      |                     |              |
| Proj. N | o.          | army       | Proje | ect Na | ame               | Value                     | NOP            |        | No/Ty  | pe of C     | ontain     | hers        |     |            | 2    | F   | The second secon | / /     |     |     | /      |                     |              |
|         |             |            | -     | Tru    | INK MD            | 16" Hydre                 | >              |        |        |             |            |             |     | d          | 8    | 510 | 4  |         | /   |     |        |                     |              |
| Matrix  | Date        | Time       | CoEp  | Grab   | Identifying Ma    | rks of Sample(s)          | Start<br>Depth | End    | VOA    | AG          | ar 260     | Glass       | P/O |            | / "  | 9   |  |         |     |     | Lab    | Sample ID (L        | ab Use Only) |
| 5       | 6/20/16     | 1050       |       |        | FF                | >-1                       |                |        |        |             |            |             |     | X          | x    | ×   |  |         |     | 1   | 600    | OB2                 | 1001         |
| 5       |             | 1100       |       |        | Ff                | 2-2                       |                |        |        |             |            | 1           |     | X          | X    | ×   |  |         |     |     |        |                     | 000          |
| S       |             | 1110       |       |        | Ff                | 2-3                       |                |        |        |             |            | 1           |     | X          | Y    | ×   |  |         |     |     |        |                     | - 003        |
| S       | *           | 1120       |       |        | FP                | 24                        |                |        |        |             |            | 1           |     | X          | X    | ×   |  |         |     |     |        |                     | 004          |
| ~       |             |            |       |        |                   |                           |                |        |        |             |            |             |     |            |      |     |  |         |     |     |        |                     |              |
|         |             |            |       |        |                   |                           |                |        |        |             |            |             |     |            |      |     |  |         |     |     |        |                     |              |
|         |             |            |       |        |                   |                           |                |        |        |             |            |             |     |            |      |     |  |         |     | _   |        |                     |              |
|         |             |            |       |        |                   | MARS                      |                |        |        |             |            |             |     |            |      |     |  |         |     |     |        |                     |              |
|         |             |            |       |        |                   | ~                         |                |        |        |             |            |             |     |            |      |     |  |         |     | _   |        |                     |              |
|         |             |            |       |        | ĺ                 |                           |                |        |        |             | -          |             | _   |            |      |     |  |         |     |     |        |                     |              |
| Beling  | uished by ( | Signature) | mai   |        | Date:             | Time: Recei               | ved by:        | (Signa | ature) |             | 1          | Date        | : 1 | T          | ime: |     | NOTES:   |         |     |     |        |                     |              |
| Relinqu | uished by ( | Signature) | -     | Q      | 20/16 14<br>Date: | Time: Recei               | ved av         | Signa  | ature) | (           | X          | Zil<br>Date | 1   | CZ:        | ime: | 2   | 1  | Bill to | Tov | n L | ung T  | STROD               |              |
| Relinqu | uished by ( | Signature) | )     | -      | Date:             | Time: Recei               | ved by:        | (Signa | ature) |             | +          | Date        | :   | Т          | ime: | -   |  |         |     |     | ,      |                     |              |
| Relina  | uished by ( | Signature) |       | -      | Date:             | Time: Becel               | ved by:        | (Signa | ature) |             |            | Data        |     | Ť          | ime: | -   |  |         |     |     |        |                     |              |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 06, 2016

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

RE: Trunk MD 16" Hydro

OrderNo.: 1606D44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/24/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

#### Lab Order 1606D44

Date Reported: 7/6/2016

## Hall Environmental Analysis Laboratory, Inc.

l

**CLIENT: APEX TITAN Client Sample ID: RP-1** Collection Date: 6/23/2016 9:50:00 AM Project: Trunk MD 16" Hydro Lab ID: 1606D44-001 Matrix: SOIL Received Date: 6/24/2016 7:47:00 AM Analyses Result POL Qual Unite DF Date Analyzed

| Analyses                         | Result   | PQL Qua | l Units | DF | Date Analyzed         | Batch |
|----------------------------------|----------|---------|---------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         |          |         |         |    | Analyst               | LGT   |
| Chloride                         | 1.5      | 1.5     | mg/Kg   | 1  | 6/28/2016 12:54:41 AM | 26092 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 6       |         |    | Analyst:              | том   |
| Diesel Range Organics (DRO)      | ND       | 9.7     | mg/Kg   | 1  | 6/27/2016 8:51:37 PM  | 25992 |
| Surr: DNOP                       | 94.7     | 70-130  | %Rec    | 1  | 6/27/2016 8:51:37 PM  | 25992 |
| EPA METHOD 8015D: GASOLINE RANG  | E        |         |         |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND       | 4.7     | mg/Kg   | 1  | 6/27/2016 6:33:33 PM  | 26054 |
| Surr: BFB                        | 99.1     | 80-120  | %Rec    | 1  | 6/27/2016 6:33:33 PM  | 26054 |
| EPA METHOD 8021B: VOLATILES      |          |         |         |    | Analyst:              | NSB   |
| Benzene                          | ND       | 0.023   | mg/Kg   | 1  | 6/27/2016 6:33:33 PM  | 26054 |
| Toluene                          | ND       | 0.047   | mg/Kg   | 1  | 6/27/2016 6:33:33 PM  | 26054 |
| Ethylbenzene                     | ND       | 0.047   | mg/Kg   | 1  | 6/27/2016 6:33:33 PM  | 26054 |
| Xylenes, Total                   | ND       | 0.093   | mg/Kg   | 1  | 6/27/2016 6:33:33 PM  | 26054 |
| Surr: 4-Bromofluorobenzene       | 94.2     | 80-120  | %Rec    | 1  | 6/27/2016 6:33:33 PM  | 26054 |
|                                  |          |         |         |    |                       |       |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qua | lifiers: |  |
|-----|----------|--|
|     |          |  |

\*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 13 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

Date Reported: 7/6/2016

6/27/2016 9:13:31 PM

6/27/2016 9:13:31 PM

6/27/2016 6:57:04 PM

1

1

1

1

1

1

1

1

1

Analyst: TOM

Analyst: NSB

Analyst: NSB

25992

25992

26054

26054

26054

26054

26054

26054

26054

## Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

EPA METHOD 8015D: GASOLINE RANGE

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

| CLIENT: APEX TITAN Client Sample ID: RP-2  |       |
|--|-------|
| Project:         Trunk MD 16" Hydro         Collection Date: 6/23/2016 10:00:00 AM                                   |       |
| Lab ID:         1606D44-002         Matrix:         SOIL         Received Date:         6/24/2016         7:47:00 AM | э.    |
| Analyses Result PQL Qual Units DF Date Analyzed  | Batch |
| EPA METHOD 300.0: ANIONS Analys  | LGT   |
| Chloride ND 1.5 mg/Kg 1 6/28/2016 1:19:31 AM   | 26092 |

10

4.7

70-130

80-120

0.023

0.047

0.047

0.094

80-120

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

ND

98.3

ND

96.2

ND

ND

ND

ND

91.6

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | H  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 2 of 13   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

**Analytical Report** 

#### Lab Order 1606D44

Date Reported: 7/6/2016

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX TITAN Client Sample ID: RP-3** Collection Date: 6/23/2016 10:10:00 AM **Project:** Trunk MD 16" Hydro Lab ID: 1606D44-003 Received Date: 6/24/2016 7:47:00 AM Matrix: SOIL

| Analyses                         | Result   | PQL Qua | Units | DF | Date Analyzed         | Batch |
|----------------------------------|----------|---------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         |          |         |       |    | Analyst               | LGT   |
| Chloride                         | ND       | 30      | mg/Kg | 20 | 6/29/2016 10:50:34 AM | 26161 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 6       |       |    | Analyst               | TOM   |
| Diesel Range Organics (DRO)      | ND       | 9.5     | mg/Kg | 1  | 6/27/2016 9:35:16 PM  | 25992 |
| Surr: DNOP                       | 97.0     | 70-130  | %Rec  | 1  | 6/27/2016 9:35:16 PM  | 25992 |
| EPA METHOD 8015D: GASOLINE RANG  | E        |         |       |    | Analyst               | NSB   |
| Gasoline Range Organics (GRO)    | ND       | 4.7     | mg/Kg | 1  | 6/27/2016 7:20:31 PM  | 26054 |
| Surr: BFB                        | 97.9     | 80-120  | %Rec  | 1  | 6/27/2016 7:20:31 PM  | 26054 |
| EPA METHOD 8021B: VOLATILES      |          |         |       |    | Analyst               | NSB   |
| Benzene                          | ND       | 0.023   | mg/Kg | 1  | 6/27/2016 7:20:31 PM  | 26054 |
| Toluene                          | ND       | 0.047   | mg/Kg | 1  | 6/27/2016 7:20:31 PM  | 26054 |
| Ethylbenzene                     | ND       | 0.047   | mg/Kg | 1  | 6/27/2016 7:20:31 PM  | 26054 |
| Xylenes, Total                   | ND       | 0.093   | mg/Kg | 1  | 6/27/2016 7:20:31 PM  | 26054 |
| Surr: 4-Bromofluorobenzene       | 92.7     | 80-120  | %Rec  | 1  | 6/27/2016 7:20:31 PM  | 26054 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | ualifiers | : |
|-------------|-----------|---|
|-------------|-----------|---|

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- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 13 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/6/2016
Client Sample ID: RP-4

Project: Trunk MD 16" Hydro Lab ID: 1606D44-004

**CLIENT: APEX TITAN** 

Collection Date: 6/23/2016 10:20:00 AM Received Date: 6/24/2016 7:47:00 AM

| Analyses                         | Result  | PQL Qual | Units | DF | Date Analyzed         | Batch |
|----------------------------------|---------|----------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         |         |          |       |    | Analyst               | LGT   |
| Chloride                         | ND      | 30       | mg/Kg | 20 | 6/29/2016 11:52:37 AM | 26161 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANIC | S        |       |    | Analyst:              | TOM   |
| Diesel Range Organics (DRO)      | ND      | 9.8      | mg/Kg | 1  | 6/27/2016 9:57:18 PM  | 25992 |
| Surr: DNOP                       | 97.4    | 70-130   | %Rec  | 1  | 6/27/2016 9:57:18 PM  | 25992 |
| EPA METHOD 8015D: GASOLINE RANGE | Ξ       |          |       |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND      | 4.7      | mg/Kg | 1  | 6/27/2016 7:43:59 PM  | 26054 |
| Surr: BFB                        | 97.2    | 80-120   | %Rec  | 1  | 6/27/2016 7:43:59 PM  | 26054 |
| EPA METHOD 8021B: VOLATILES      |         |          |       |    | Analyst:              | NSB   |
| Benzene                          | ND      | 0.024    | mg/Kg | 1  | 6/27/2016 7:43:59 PM  | 26054 |
| Toluene                          | ND      | 0.047    | mg/Kg | 1  | 6/27/2016 7:43:59 PM  | 26054 |
| Ethylbenzene                     | ND      | 0.047    | mg/Kg | 1  | 6/27/2016 7:43:59 PM  | 26054 |
| Xylenes, Total                   | ND      | 0.095    | mg/Kg | 1  | 6/27/2016 7:43:59 PM  | 26054 |
| Surr: 4-Bromofluorobenzene       | 92.0    | 80-120   | %Rec  | 1  | 6/27/2016 7:43:59 PM  | 26054 |

Matrix: SOIL

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 4 of 13   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |

### Date Reported: 7/6/2016

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: RP-5

 Project:
 Trunk MD 16" Hydro
 Collection Date: 6/23/2016 10:30:00 AM

 Lab ID:
 1606D44-005
 Matrix: SOIL
 Received Date: 6/24/2016 7:47:00 AM

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|---|----------------------------------|---------|----------|-------|----|-----------------------|-------|
|   | EPA METHOD 300.0: ANIONS         |         |          |       |    | Analyst:              | LGT   |
|   | Chloride                         | ND      | 30       | mg/Kg | 20 | 6/29/2016 12:05:01 PM | 26161 |
|   | EPA METHOD 8015M/D: DIESEL RANGE | ORGANIC | S        |       |    | Analyst:              | TOM   |
|   | Diesel Range Organics (DRO)      | ND      | 9.5      | mg/Kg | 1  | 6/27/2016 10:19:06 PM | 25992 |
|   | Surr: DNOP                       | 95.6    | 70-130   | %Rec  | 1  | 6/27/2016 10:19:06 PM | 25992 |
|   | EPA METHOD 8015D: GASOLINE RANGE | =       |          |       |    | Analyst:              | NSB   |
|   | Gasoline Range Organics (GRO)    | ND      | 4.9      | mg/Kg | 1  | 6/27/2016 8:07:26 PM  | 26054 |
|   | Surr: BFB                        | 98.5    | 80-120   | %Rec  | 1  | 6/27/2016 8:07:26 PM  | 26054 |
|   | EPA METHOD 8021B: VOLATILES      |         |          |       |    | Analyst:              | NSB   |
|   | Benzene                          | ND      | 0.024    | mg/Kg | 1  | 6/27/2016 8:07:26 PM  | 26054 |
|   | Toluene                          | ND      | 0.049    | mg/Kg | 1  | 6/27/2016 8:07:26 PM  | 26054 |
|   | Ethylbenzene                     | ND      | 0.049    | mg/Kg | 1  | 6/27/2016 8:07:26 PM  | 26054 |
|   | Xylenes, Total                   | ND      | 0.097    | mg/Kg | 1  | 6/27/2016 8:07:26 PM  | 26054 |
|   | Surr: 4-Bromofluorobenzene       | 93.7    | 80-120   | %Rec  | 1  | 6/27/2016 8:07:26 PM  | 26054 |
|   |                                  |         |          |       |    |                       |       |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                            |
|             | н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 5 of 13   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX TITAN** 

Lab Order 1606D44
Date Reported: 7/6/2016
Client Sample ID: RP-6

| Project: Trunk MD 16" Hydro      |         |          | Collectio | on Date: 6/23/2016 10:40:00 AM |     |
|----------------------------------|---------|----------|-----------|--------------------------------|-----|
| Lab ID: 1606D44-006              | Matrix: | SOIL     | Receive   | ed Date: 6/24/2016 7:47:00 AM  |     |
| Analyses                         | Result  | PQL Qual | Units     | DF Date Analyzed Bat           | tch |
| EPA METHOD 300.0: ANIONS         |         |          |           | Analyst: LG                    | т   |
| Chloride                         | ND      | 30       | mg/Kg     | 20 6/29/2016 12:17:25 PM 261   | 61  |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANIC | s        |           | Analyst: TO                    | M   |
| Diesel Range Organics (DRO)      | ND      | 9.3      | mg/Kg     | 1 6/27/2016 10:41:03 PM 259    | 92  |
| Surr: DNOP                       | 96.2    | 70-130   | %Rec      | 1 6/27/2016 10:41:03 PM 259    | 92  |
| EPA METHOD 8015D: GASOLINE RANGI | E       |          |           | Analyst: NS                    | в   |
| Gasoline Range Organics (GRO)    | ND      | 4.7      | mg/Kg     | 1 6/27/2016 8:30:50 PM 260     | 54  |
| Surr: BFB                        | 98.0    | 80-120   | %Rec      | 1 6/27/2016 8:30:50 PM 260     | 54  |
| EPA METHOD 8021B: VOLATILES      |         |          |           | Analyst: NS                    | в   |
| Benzene                          | ND      | 0.024    | mg/Kg     | 1 6/27/2016 8:30:50 PM 260     | 54  |
| Toluene                          | ND      | 0.047    | mg/Kg     | 1 6/27/2016 8:30:50 PM 260     | 54  |
| Ethylbenzene                     | ND      | 0.047    | mg/Kg     | 1 6/27/2016 8:30:50 PM 260     | 54  |
| Xylenes, Total                   | ND      | 0.094    | mg/Kg     | 1 6/27/2016 8:30:50 PM 260     | 54  |
| Surr: 4-Bromofluorobenzene       | 92.1    | 80-120   | %Rec      | 1 6/27/2016 8:30:50 PM 260     | 54  |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte dete |
|-------------|---|--|---|--------------|

- D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1606D44 Date Reported: 7/6/2016

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## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: RP-7

 Project: Trunk MD 16" Hydro
 Collection Date: 6/23/2016 10:50:00 AM

 Lab ID: 1606D44-007
 Matrix: SOIL
 Received Date: 6/24/2016 7:47:00 AM

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| Analyses                         | Result   | PQL Qua | I Units | DF | Date Analyzed         | Batch |
|----------------------------------|----------|---------|---------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         |          |         |         |    | Analyst:              | LGT   |
| Chloride                         | ND       | 30      | mg/Kg   | 20 | 6/29/2016 12:29:50 PM | 26161 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 6       |         |    | Analyst:              | TOM   |
| Diesel Range Organics (DRO)      | ND       | 9.9     | mg/Kg   | 1  | 6/27/2016 11:02:50 PM | 25992 |
| Surr: DNOP                       | 95.9     | 70-130  | %Rec    | 1  | 6/27/2016 11:02:50 PM | 25992 |
| EPA METHOD 8015D: GASOLINE RANGE | E        |         |         |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND       | 4.6     | mg/Kg   | 1  | 6/27/2016 8:54:23 PM  | 26054 |
| Surr: BFB                        | 98.3     | 80-120  | %Rec    | 1  | 6/27/2016 8:54:23 PM  | 26054 |
| EPA METHOD 8021B: VOLATILES      |          |         |         |    | Analyst:              | NSB   |
| Benzene                          | ND       | 0.023   | mg/Kg   | 1  | 6/27/2016 8:54:23 PM  | 26054 |
| Toluene                          | ND       | 0.046   | mg/Kg   | 1  | 6/27/2016 8:54:23 PM  | 26054 |
| Ethylbenzene                     | ND       | 0.046   | mg/Kg   | 1  | 6/27/2016 8:54:23 PM  | 26054 |
| Xylenes, Total                   | ND       | 0.092   | mg/Kg   | 1  | 6/27/2016 8:54:23 PM  | 26054 |
| Surr: 4-Bromofluorobenzene       | 92.6     | 80-120  | %Rec    | 1  | 6/27/2016 8:54:23 PM  | 26054 |
|                                  |          |         |         |    |                       |       |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | H  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 7 of 13   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

#### Date Reported: 7/6/2016

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: RP-8

 Project:
 Trunk MD 16" Hydro
 Collection Date: 6/23/2016 11:30:00 AM

 Lab ID:
 1606D44-008
 Matrix: SOIL
 Received Date: 6/24/2016 7:47:00 AM

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| Analyses                         | Result   | TQL Qual   | Units   | DF   | Date Analyzeu   | Datti   |
|----------------------------------|--|--|---|--|---|---|
| EPA METHOD 300.0: ANIONS         |  |  |   |  | Analyst:  | LGT   |
| Chloride                         | ND   | 30   | mg/Kg   | 20   | 6/29/2016 12:42:15 PM   | 26161   |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANIC  | S  |   |  | Analyst:  | том   |
| Diesel Range Organics (DRO)      | ND   | 9.8  | mg/Kg   | 1  | 6/27/2016 2:20:27 PM  | 26058   |
| Surr: DNOP                       | 77.9   | 70-130   | %Rec  | 1  | 6/27/2016 2:20:27 PM  | 26058   |
| EPA METHOD 8015D: GASOLINE RANGE | Ξ  |  |   |  | Analyst:  | NSB   |
| Gasoline Range Organics (GRO)    | ND   | 4.9  | mg/Kg   | 1  | 6/27/2016 9:17:52 PM  | 26054   |
| Surr: BFB                        | 97.9   | 80-120   | %Rec  | 1  | 6/27/2016 9:17:52 PM  | 26054   |
| EPA METHOD 8021B: VOLATILES      |  |  |   |  | Analyst:  | NSB   |
| Benzene                          | ND   | 0.025  | mg/Kg   | 1  | 6/27/2016 9:17:52 PM  | 26054   |
| Toluene                          | ND   | 0.049  | mg/Kg   | 1  | 6/27/2016 9:17:52 PM  | 26054   |
| Ethylbenzene                     | ND   | 0.049  | mg/Kg   | 1  | 6/27/2016 9:17:52 PM  | 26054   |
| Xylenes, Total                   | ND   | 0.098  | mg/Kg   | 1  | 6/27/2016 9:17:52 PM  | 26054   |
| Surr: 4-Bromofluorobenzene       | 93.5   | 80-120   | %Rec  | 1  | 6/27/2016 9:17:52 PM  | 26054   |
|                                  | EPA METHOD 300.0: ANIONS<br>Chloride<br>EPA METHOD 8015M/D: DIESEL RANGE<br>Diesel Range Organics (DRO)<br>Surr: DNOP<br>EPA METHOD 8015D: GASOLINE RANGE<br>Gasoline Range Organics (GRO)<br>Surr: BFB<br>EPA METHOD 8021B: VOLATILES<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total<br>Surr: 4-Bromofluorobenzene | Analyses       Result         EPA METHOD 300.0: ANIONS       ND         Chloride       ND         EPA METHOD 8015M/D: DIESEL RANGE ORGANIC       Diesel Range Organics (DRO)       ND         Diesel Range Organics (DRO)       ND       Surr: DNOP       77.9         EPA METHOD 8015D: GASOLINE RANGE       Gasoline Range Organics (GRO)       ND         Surr: BFB       97.9       97.9         EPA METHOD 8021B: VOLATILES       Benzene       ND         Toluene       ND       ND         Ethylbenzene       ND       Xylenes, Total       ND         Surr: 4-Bromofluorobenzene       93.5       93.5 | ResultF. Q.D. QuarEPA METHOD 300.0: ANIONS<br>ChlorideChlorideND30EPA METHOD 80155M/D: DIESEL RANGE ORGANICSDiesel Range Organics (DRO)ND9.8Surr: DNOP77.970-130EPA METHOD 8015D: GASOLINE RANGEGasoline Range Organics (GRO)ND4.9Surr: BFB97.980-120EPA METHOD 8021B: VOLATILESBenzeneNDBenzeneND0.049TolueneND0.049EthylbenzeneND0.049Xylenes, TotalND0.098Surr: 4-Bromofluorobenzene93.580-120 | ResultFeestiteFeestiteFeestiteEPA METHOD 300.0: ANIONSChlorideND30mg/KgDiesel Range Organics (DRO)ND9.8Diesel Range Organics (DRO)ND9.8Diesel Range Organics (DRO)ND9.8Gasoline Range Organics (GRO)ND4.9mg/KgSurr: BFB97.980-120%RecEPA METHOD 8021B: VOLATILESBenzeneND0.025mg/KgTolueneND0.049mg/KgEthylbenzeneND0.049mg/KgXylenes, TotalND0.098mg/KgSurr: 4-Bromofluorobenzene93.580-120%Rec | ResultP (v) (v) (v) (v)OrtholdEPA METHOD 300.0: ANIONSChlorideND30mg/Kg20EPA METHOD 8015M/D: DIESEL RANGE ORGANICSDiesel Range Organics (DRO)ND9.8mg/Kg1Surr: DNOP77.970-130%Rec1EPA METHOD 8015D: GASOLINE RANGEGasoline Range Organics (GRO)ND4.9mg/Kg1Surr: BFB97.980-120%Rec1EPA METHOD 8021B: VOLATILESBenzeneND0.025mg/Kg1TolueneND0.049mg/Kg1EthylbenzeneND0.049mg/Kg1Xylenes, TotalND0.098mg/Kg1Surr: 4-Bromofluorobenzene93.580-120%Rec1 | Analyses         Result         FQE:         Qual         Onts         Dr.         Date Analyzed           EPA METHOD 300.0: ANIONS         ND         30         mg/Kg         20         6/29/2016 12:42:15 PM           EPA METHOD 8015M/D: DIESEL RANGE ORGANICS         Analyst:           Diesel Range Organics (DRO)         ND         9.8         mg/Kg         1         6/27/2016 2:20:27 PM           Surr: DNOP         77.9         70-130         %Rec         1         6/27/2016 2:20:27 PM           EPA METHOD 8015D: GASOLINE RANGE         Analyst:         Gasoline Range Organics (GRO)         ND         4.9         mg/Kg         1         6/27/2016 2:20:27 PM           EPA METHOD 8015D: GASOLINE RANGE         Analyst:         Gasoline Range Organics (GRO)         ND         4.9         mg/Kg         1         6/27/2016 9:17:52 PM           Surr: BFB         97.9         80-120         %Rec         1         6/27/2016 9:17:52 PM           Benzene         ND         0.025         mg/Kg         1         6/27/2016 9:17:52 PM           Toluene         ND         0.049         mg/Kg         1         6/27/2016 9:17:52 PM           Ethylbenzene         ND         0.049         mg/Kg         1         6/27/2016 9:17:52 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Q | ua | li | fi | e | rs | : |
|---|----|----|----|---|----|---|
| _ |    |    |    |   |    |   |

\*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1606D44

Page 9 of 13

06-Jul-16

Client: APEX TITAN Project: Trunk MD 16" Hydr

| Project:   | Trun      | k MD 16" Hydro           |  |
|------------|-----------|--------------------------|--|
| Sample ID  | MB-26092  | SampType: MBLK           | TestCode: EPA Method 300.0: Anions                       |
| Client ID: | PBS       | Batch ID: 26092          | RunNo: 35241   |
| Prep Date: | 6/27/2016 | Analysis Date: 6/27/2016 | SeqNo: 1089804 Units: mg/Kg                              |
| Analyte    |           | Result PQL SPK value     | e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | ND 1.5                   |  |
| Sample ID  | LCS-26092 | SampType: LCS            | TestCode: EPA Method 300.0: Anions                       |
| Client ID: | LCSS      | Batch ID: 26092          | RunNo: 35241   |
| Prep Date: | 6/27/2016 | Analysis Date: 6/27/2016 | SeqNo: 1089805 Units: mg/Kg                              |
| Analyte    |           | Result PQL SPK value     | e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | 14 1.5 15.00             | 0 0 94.7 90 110  |
| Sample ID  | MB-26161  | SampType: MBLK           | TestCode: EPA Method 300.0: Anions                       |
| Client ID: | PBS       | Batch ID: 26161          | RunNo: 35326   |
| Prep Date: | 6/30/2016 | Analysis Date: 6/29/2016 | SeqNo: 1092908 Units: mg/Kg                              |
| Analyte    |           | Result PQL SPK value     | e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | ND 1.5                   |  |
| Sample ID  | LCS-26161 | SampType: LCS            | TestCode: EPA Method 300.0: Anions                       |
| Client ID: | LCSS      | Batch ID: 26161          | RunNo: 35326   |
| Prep Date: | 6/30/2016 | Analysis Date: 6/29/2016 | SeqNo: 1092909 Units: mg/Kg                              |
| Analyte    |           | Result PQL SPK value     | e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride   |           | 14 1.5 15.00             | 0 95.1 90 110  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1606D44

06-Jul-16

| Client: APEX T<br>Project: Trunk M                             | TTAN<br>1D 16" Hydro   |  |                       |               |
|--|--|--|-----------------------|---------------|
| Sample ID LCS-26058<br>Client ID: LCSS<br>Prep Date: 6/24/2016 | SampType: LCS<br>Batch ID: 26058<br>Analysis Date: 6/27/2016 | TestCode: EPA Method<br>RunNo: 35221<br>SeaNo: 1089122 | Units: ma/Ka          | o Organics    |
| Analyte  | Result PQL SPK value   | SPK Ref Val %REC LowLimit                              | HighLimit %RPD        | RPDLimit Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP                      | 501050.004.75.000  | 0 99.4 62.6<br>94.7 70                                 | 124<br>130            |               |
| Sample ID MB-26058   | SampType: MBLK   | TestCode: EPA Method                                   | 8015M/D: Diesel Range | Organics      |
| Client ID: PBS   | Batch ID: 26058  | RunNo: 35221   |                       |               |
| Prep Date: 6/24/2016   | Analysis Date: 6/27/2016                                     | SeqNo: 1089123   | Units: mg/Kg          |               |
| Analyte  | Result PQL SPK value   | SPK Ref Val %REC LowLimit                              | HighLimit %RPD        | RPDLimit Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP                      | ND 10<br>9.6 10.00   | 95.6 70  | 130                   |               |
| Sample ID MB-25992   | SampType: MBLK   | TestCode: EPA Method                                   | 8015M/D: Diesel Range | organics      |
| Client ID: PBS   | Batch ID: 25992  | RunNo: 35221   |                       |               |
| Prep Date: 6/22/2016   | Analysis Date: 6/27/2016                                     | SeqNo: 1089257   | Units: mg/Kg          |               |
| Analyte  | Result PQL SPK value   | SPK Ref Val %REC LowLimit                              | HighLimit %RPD        | RPDLimit Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP                      | ND 10<br>8.9 10.00   | 88.6 70  | 130                   |               |
| Sample ID LCS-25992  | SampType: LCS  | TestCode: EPA Method                                   | 8015M/D: Diesel Range | Organics      |
| Client ID: LCSS  | Batch ID: 25992  | RunNo: 35221   |                       |               |
| Prep Date: 6/22/2016   | Analysis Date: 6/27/2016                                     | SeqNo: 1089274   | Units: mg/Kg          |               |
| Analyte  | Result PQL SPK value   | SPK Ref Val %REC LowLimit                              | HighLimit %RPD        | RPDLimit Qual |
| Diesel Range Organics (DRO)                                    | 52 10 50.00  | 0 103 62.6   | 124                   |               |
| Surr: DNOP   | 4.8 5.000  | 96.6 70  | 130                   |               |
| Sample ID 1606D44-008AMS                                       | S SampType: MS   | TestCode: EPA Method                                   | 8015M/D: Diesel Range | Organics      |
| Client ID: RP-8  | Batch ID: 26058  | RunNo: 35220   |                       |               |
| Prep Date: 6/24/2016   | Analysis Date: 6/27/2016                                     | SeqNo: 1089551   | Units: mg/Kg          |               |
| Analyte  | Result PQL SPK value   | SPK Ref Val %REC LowLimit                              | HighLimit %RPD        | RPDLimit Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP                      | 35         9.5         47.53           3.7         4.753     | 0 74.5 33.9<br>77.1 70                                 | 141<br>130            |               |
| Sample ID 1606D44-008AMS                                       | SD SampType: MSD   | TestCode: EPA Method                                   | 8015M/D: Diesel Range | Organics      |
| Client ID: RP-8  | Batch ID: 26058  | RunNo: 35220   |                       |               |
| Prep Date: 6/24/2016   | Analysis Date: 6/27/2016                                     | SeqNo: 1090134   | Units: mg/Kg          |               |
| Analyte  | Result PQL SPK value   | SPK Ref Val %REC LowLimit                              | HighLimit %RPD        | RPDLimit Qual |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 10 of 13

- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

#### Client: APEX TITAN

Project: Trunk MD 16" Hydro

| Sample ID      | 1606D44-008AMSE | SampType      | : MS | SD        | Test        | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics |      |
|----------------|-----------------|---------------|------|-----------|-------------|----------|-----------|-------------|-----------|------------|------|
| Client ID:     | RP-8            | Batch ID      | 26   | 058       | R           | RunNo: 3 | 5220      |             |           |            |      |
| Prep Date:     | 6/24/2016       | Analysis Date | 6/   | 27/2016   | S           | SeqNo: 1 | 090134    | Units: mg/h | ٢g        |            |      |
| Analyte        |                 | Result P      | QL   | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD      | RPDLimit   | Qual |
| Diesel Range ( | Organics (DRO)  | 36            | 9.5  | 47.26     | 0           | 75.4     | 33.9      | 141         | 0.651     | 20         |      |
| Surr: DNOP     |                 | 3.8           |      | 4.726     |             | 80.5     | 70        | 130         | 0         | 0          |      |

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WO#: 1606D44

06-Jul-16

WO#: 1606D44

06-Jul-16

| Hall Envir | onmental | Analysis | Laborate | ory, Inc. |
|------------|----------|----------|----------|-----------|
|------------|----------|----------|----------|-----------|

| Client:  | APEX TITAN         |  |  |  |  |
|----------|--------------------|--|--|--|--|
| Project: | Trunk MD 16" Hydro |  |  |  |  |

| Sample ID MB-26054            | SampType: MB       | LK        | Tės         | TestCode: EPA Method 8015D: Gasoline Range |           |             |           |          |      |
|-------------------------------|--------------------|-----------|-------------|--|-----------|-------------|-----------|----------|------|
| Client ID: PBS                | Batch ID: 260      | 54        | F           | RunNo: 35243                               |           |             |           |          |      |
| Prep Date: 6/24/2016          | Analysis Date: 6/2 | 7/2016    | S           | SeqNo: 1                                   | 089910    | Units: mg/M | g         |          |      |
| Analyte                       | Result PQL         | SPK value | SPK Ref Val | %REC                                       | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND 5.0             |           |             |  |           |             |           |          |      |
| Surr: BFB                     | 980                | 1000      |             | 97.6                                       | 80        | 120         |           |          |      |
| Sample ID LCS-26054           | SampType: LCS      | 5         | Tes         | tCode: El                                  | PA Method | 8015D: Gaso | line Rang | e        |      |
| Client ID: LCSS               | Batch ID: 260      | 54        | F           | RunNo: 3                                   | 5243      |             |           |          |      |
| Prep Date: 6/24/2016          | Analysis Date: 6/2 | 7/2016    | S           | SeqNo: 1                                   | 089911    | Units: mg/M | g         |          |      |
| Analyte                       | Result PQL         | SPK value | SPK Ref Val | %REC                                       | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 5.0             | 25.00     | 0           | 109  | 80        | 120         |           |          |      |
| Surr: BFB                     | 1100               | 1000      |             | 109  | 80        | 120         |           |          |      |

#### **Qualifiers:**

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 12 of 13

| Hall | Environment | tal A | Analys | is La | borat | tory, I | nc. |
|------|-------------|-------|--------|-------|-------|---------|-----|
|------|-------------|-------|--------|-------|-------|---------|-----|

Client: APEX TITAN Project: Trunk MD 16" Hydro

| Sample ID MB-26054  | Samp                                 | Гуре: МЕ                               | <b>ŠLK</b>                                    | Test                            | TestCode: EPA Method 8021B: Volatiles |  |                                       |       |          |      |
|---|--------------------------------------|--|---|---------------------------------|---------------------------------------|--|---------------------------------------|-------|----------|------|
| Client ID: PBS  | Batc                                 | h ID: 26                               | 054   | RunNo: 35243                    |                                       |  |                                       |       |          |      |
| Prep Date: 6/24/2016  | Analysis [                           | Date: 6/                               | 27/2016                                       | S                               | eqNo: 1                               | 089938                                 | Units: mg/M                           | g     |          |      |
| Analyte   | Result                               | PQL                                    | SPK value                                     | SPK Ref Val                     | %REC                                  | LowLimit                               | HighLimit                             | %RPD  | RPDLimit | Qual |
| e   | ND                                   | 0.025                                  |   |                                 |                                       |  |                                       |       |          |      |
| Toluene   | ND                                   | 0.050                                  |   |                                 |                                       |  |                                       |       |          |      |
| Ethylbenzene  | ND                                   | 0.050                                  |   |                                 |                                       |  |                                       |       |          |      |
| Xylenes Total   | ND                                   | 0.10                                   |   |                                 |                                       |  |                                       |       |          |      |
| Sur: 4-Bromofluorobenzene                                       | 0.94                                 | 0.10                                   | 1 000   |                                 | 94.3                                  | 80                                     | 120                                   |       |          |      |
|   | 0.01                                 |  | 1.000   |                                 | 01.0                                  |  | 120                                   |       |          |      |
| Sample ID LCS-26054   | Samp                                 | Type: LC                               | S   | Test                            | Code: El                              | PA Method                              | 8021B: Vola                           | tiles |          |      |
| Client ID: LCSS   | Batc                                 | h ID: 26                               | 054   | R                               | RunNo: 35243                          |  |                                       |       |          |      |
| Prep Date: 6/24/2016  | Analysis [                           | Date: 6/                               | 27/2016                                       | S                               | eqNo: 1                               | 089939                                 | Units: mg/M                           | g     |          |      |
|   |                                      |  |   |                                 |                                       |  |                                       |       |          |      |
| Analyte   | Result                               | PQL                                    | SPK value                                     | SPK Ref Val                     | %REC                                  | LowLimit                               | HighLimit                             | %RPD  | RPDLimit | Qual |
| Analyte<br>Benzene  | Result<br>0.99                       | PQL<br>0.025                           | SPK value<br>1.000                            | SPK Ref Val<br>0                | %REC<br>99.2                          | LowLimit<br>75.3                       | HighLimit<br>123                      | %RPD  | RPDLimit | Qual |
| Analyte<br>Benzene<br>Toluene                                   | Result<br>0.99<br>0.99               | PQL<br>0.025<br>0.050                  | SPK value<br>1.000<br>1.000                   | SPK Ref Val<br>0<br>0           | %REC<br>99.2<br>99.5                  | LowLimit<br>75.3<br>80                 | HighLimit<br>123<br>124               | %RPD  | RPDLimit | Qual |
| Analyte<br>Benzene<br>Toluene<br>Ethylbenzene                   | Result<br>0.99<br>0.99<br>1.0        | PQL<br>0.025<br>0.050<br>0.050         | SPK value<br>1.000<br>1.000<br>1.000          | SPK Ref Val<br>0<br>0           | %REC<br>99.2<br>99.5<br>102           | LowLimit<br>75.3<br>80<br>82.8         | HighLimit<br>123<br>124<br>121        | %RPD  | RPDLimit | Qual |
| Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total | Result<br>0.99<br>0.99<br>1.0<br>3.0 | PQL<br>0.025<br>0.050<br>0.050<br>0.10 | SPK value<br>1.000<br>1.000<br>1.000<br>3.000 | SPK Ref Val<br>0<br>0<br>0<br>0 | %REC<br>99.2<br>99.5<br>102<br>99.7   | LowLimit<br>75.3<br>80<br>82.8<br>83.9 | HighLimit<br>123<br>124<br>121<br>122 | %RPD  | RPDLimit | Qual |

Qualifiers:

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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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06-Jul-16

WO#: 1606D44

| HALL<br>Environmental<br>Analysis<br>Laboratory  | Hall Environmental Analysi<br>4901<br>Albuquerqu<br>TEL: 505-345-3975 FAX: 5<br>Website: www.hallenviro | s Laboratory<br>Hawkins NE<br>e, NM 87109<br>05-345-4107<br>nmental.com | Sam                    | ple Log-In Check List                                |
|--|---|---|------------------------|--|
| Client Name: APEX AZTEC Wo   | ork Order Number: 1606  | 044   |                        | RcptNo: 1  |
| Received by/date: AT 06/24/16  | ······  |   |                        |  |
| Logged By: Anne Thome 6/24/  | 2016 7:47:00 AM   | 4   | Im Im                  | -  |
| Completed By: Anne Thome 6/24/   | 2016  | 6   | In Man                 | -  |
| Reviewed By: Or D. G.  | 124/16  | ¥   |                        |  |
| Chain of Custody   | .,.   |   |                        |  |
| 1. Custody seals intact on sample bottles?   | Yes   |   | No 🗆                   | Not Present  |
| 2. Is Chain of Custody complete?   | Yes   |   | No 🗌                   | Not Present  |
| 3. How was the sample delivered?   | Cour  | ier   |                        |  |
| Log In   |   |   |                        |  |
| 4. Was an attempt made to cool the samples?  | Yes   |   | No 🗆                   | NA   |
| 5. Were all samples received at a temperature of >0                                      | 0° C to 6.0°C Yes   |   | No 🗀                   | NA 🗌   |
| 6. Sample(s) in proper container(s)?   | Yes   |   | No 🗌                   |  |
| 7. Sufficient sample volume for indicated test(s)?                                       | Yes   |   | No 🗌                   |  |
| 8. Are samples (except VOA and ONG) properly pres  | served? Yes   |   | No 🗌                   |  |
| 9. Was preservative added to bottles?  | Yes   |   | No 🗹                   | NA 🗆   |
| 10. VOA vials have zero headspace?   | Yes   |   | No 🗌                   | No VOA Vials 🗹                                       |
| 1. Were any sample containers received broken?   | Yes   |   | No 🗹                   | # of preserved                                       |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)      | Yes   |   | No 🗆                   | bottles checked<br>for pH:<br>(<2 or >12 unless note |
| 3. Are matrices correctly identified on Chain of Custo                                   | ody? Yes  |   | No 🗌                   | Adjusted?  |
| 4, is it clear what analyses were requested?   | Yes   |   | No 🗌                   |  |
| 5. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes   |   | No                     | Checked by:  |
| pecial Handling (if applicable)  |   |   |                        |  |
| 16. Was client notified of all discrepancies with this on                                | der? Yes  |   | No 🗌                   | NA 🗹   |
| Person Notified:   | Date  |   |                        |  |
| By Whom:<br>Regarding:   | Via: eMa  | iil 🗌 Phone   | Fax                    | In Person  |
| Client Instructions:   |   |   | 19.000.000.000.000.000 |  |
| 17. Additional remarks:  |   |   |                        | · · · · ·  |
| 8. <u>Cooler Information</u><br>Cooler No Temp °C Condition Seal Int<br>1 2.4 Good Yes   | act   Seal No   Seal Da   | ate Sign  | ned By                 |  |
| Page 1 of 1  |   |   | - <u></u>              |  |

|  |  |  |   |   |                   | CHAIN OF CUSTODY RECO                      |
|--|--|--|---|---|-------------------|--|
|  | Laboratory:  | Hell Baurenn   | rental  | ANALYSIS<br>REQUESTED   |                   | Lab use only<br>Due Date:<br>2. 1          |
|  | Address.   | Aboutster  |   |   |                   | Temp, of coolers<br>when received (C'):    |
| Office Location Aztec, NM  | Contenti   | A. C   |   | X   | 14                | 2 3 4                                      |
|  | Contact:   | Attremun   |   | 11  |                   | L  |
|  | Phone:   |  |   | 66  |                   | Fage                                       |
| Project Manager K. Summurs   | PO/SO #:   |  |   | XZS   |                   |  |
| ampler's Name  | Sampler's Sigra  | iture  | 1   | CH AL   |                   | -  |
| Kance Deechilly shall that   | Dudeche  | in the   | /   | 2 4 27  |                   |  |
| Project Name   | and sector 1   | No/Type of C   | Containers                                      | 200   |                   |  |
| c g  | KNO16 Hydr   | 0  |   | - 00  |                   |  |
| tatrx Date Time 0 r Ioen   | tifying Marks of Samplers)   | Start<br>Start<br>End<br>Depti<br>Depti<br>ArG<br>ArG  | Jar<br>Jar                                      |   |                   | Lab Sample ID (Lab Use Only                |
| 5 6123/14 950  | RP-  |  | 1   | × × ×   |                   | llecled 44-cel                             |
| 5 1000   | 89-2   |  | 1   | XXX   |                   | -612                                       |
| 5 1010   | RP-3   |  |   | XXX   |                   | . 23                                       |
| 5 10.20  | RP-4   |  | 1   | XXX   |                   | 2.4  |
|  | 141  | · ·····  |   |   | • • • • • • • • • |  |
| 5 1030   | 80.5   |  | 1 1   | V J V   |                   | CLS  |
| 5 1030   | RP-5   |  | 1   | <u>X_X_X</u>  |                   | CLS<br>Tile                                |
| S 1030<br>S 1040   | RP-5<br>RP-6   |  | 1<br>1  | ×.×.×.<br>×.×.×.  |                   | Tub  |
| 5 1030<br>5 1040<br>5 1050   | RP-5<br>RP-6<br>R <b>P-</b> 7  |  | 1<br>1<br>3<br>4                                | ×_ x. X<br>.×. X. X<br>.x. X X  | • • • •           |  |
| S 1030<br>S 1040<br>S 1050<br>S V 130  | RP-5<br>RP-6<br>RP-7<br>RP-8   |  |   | $\times \times \times \times$<br>$\times \times \times \times$<br>$\times \times \times \times$<br>$\times \times \times \times$  |                   | 205<br>727<br>725                          |
| 5 1030<br>5 1040<br>5 1050<br>5 V 130  | RP-5<br>RP-4<br>RP-7<br>RP-8   |  | 1<br>1<br>1<br>1<br>1<br>1                      | × × × × · · · · · · · · · · · · · · · ·   | •                 | 215<br>216<br>217<br>215                   |
| S 1030<br>S 1040<br>S 1050<br>S V 130  | RP-5<br>RP-7<br>RP-8<br>NFS  |  | 1<br>1<br>1<br>1<br>1<br>1<br>1                 | × × ×<br>× × ×<br>× × ×   | · · ·             | 206<br>727<br>725                          |
| S     1030       S     1040       S     1050       S     130   | RP-7<br>RP-7<br>RP-8<br>NFS<br>Ush   | 100% Rush  | Date:   | X_X_X<br>X_X_X<br>X_X_X<br>X_X_X<br>Time. NOTES:  |                   | 206<br>-207<br>-207<br>-205                |
| S 1030<br>S 1040<br>S 1050<br>S 130<br>S 130<br>S 130<br>S 130<br>S 130<br>S 125% R<br>Salinguished by (Signature)<br>Date<br>MI J UCI J<br>013  | RP-5<br>RP-7<br>RP-7<br>RP-8<br>NFS<br>Time: Report<br>16 19 42 / M.   | 1100% Rush<br>eg by: (Sighaturai<br>Lat UCLLT  | Date:   | $X_{X}$ X<br>$X_{X}$ X  |                   | 215<br>7216<br>7217<br>725                 |
| S     1030       S     1040       S     1050       S     130   | RP-7<br>RP-7<br>RP-7<br>RP-8<br>NFS<br>NFS<br>ISON Rush<br>Time: Repervent<br>16 10 42<br>Time: Repervent<br>17 10 40<br>Time: Repervent<br>16 10 40<br>17 10 40<br>10 10<br>10 10 40<br>10 10 40<br>1           | 100% Rush<br>ed by: (Sighatura)<br>by: (Sighatura)<br>ed/by: (Signatura)                           | Date:<br>6/23/1/<br>Date:                       | $X \times X$<br>$X \times X$<br>X | 1 to Ton          | Tib<br>Tib<br>Til<br>Tij<br>Tij            |
| S     1030       S     1040       S     1050       S     1050       S     130         Furn around time     Normal       Jabinguished by (Signature)     Date       Control     013       Sellinguished by (Signature)     Date       Muth     Control       Muth     Control       Muth     Control       Pelinguished by (Signature)     Date   | RP-5<br>RP-7<br>RP-7<br>RP-8<br>NFS<br>Time: Repair<br>16 19 42<br>Time: Repair<br>16 19 45<br>16 19 | 1100% Rush<br>eg by: (Sighaturai<br>ed/by: (Signaturai<br>ed/by: (Signaturai<br>ed by. (Signaturai | Date:<br>6/13/1/-<br>Date:<br>6/12:#ft<br>Date: | $X_{X} X_{X}$<br>$X_{X} X_{X}$<br>$X_{X$  | 1 to Toi          | Tile<br>Tile<br>Til<br>Tis<br>Milory Effed |
| S     1030       S     1040       S     1050       S     130         Turn around time     Normal     125% R         Furn around time     Normal     125% R         S     1.30         S     1.30 | RP-5<br>RP-7<br>RP-7<br>RP-7<br>RP-7<br>NFS<br>NFS<br>NFS<br>NFS<br>NFS<br>NFS<br>NFS<br>NFS   | 100% Rush<br>ed by: (Sighatura)<br>by: (Signatura)<br>www.communication<br>red by: (Signature)     | Date:<br>6/13/1/<br>Date:<br>6/2:#/E<br>Date:   | $X_{X} X_{X}$<br>$X_{X} X_{X}$<br>$X_{X$  | I to Ton          | Tib<br>Tib<br>Til<br>Tij                   |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 14, 2016

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

OrderNo.: 1607041

Dear Kyle Summers:

RE: Trunk MD 16" Hydro

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/30/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1607041 Date Reported: 7/14/2016

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 APEX TITAN
 Client Sample ID: WP-6

 Project:
 Trunk MD 16" Hydro
 Collection Date: 6/29/2016 7:50:00 AM

 Lab ID:
 1607041-001
 Matrix: SOIL
 Received Date: 6/30/2016 8:05:00 AM

| Analyses                         | Result | PQL Qu | al Units | DF | Date Analyzed       | Batch |
|----------------------------------|--------|--------|----------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS         |        |        |          |    | Analyst             | LGT   |
| Chloride                         | ND     | 30     | mg/Kg    | 20 | 7/8/2016 5:56:39 PM | 26308 |
| EPA METHOD 8015M/D: DIESEL RANGI |        | ;      |          |    | Analyst             | TOM   |
| Diesel Range Organics (DRO)      | ND     | 9.6    | mg/Kg    | 1  | 7/6/2016 1:06:57 PM | 26224 |
| Surr: DNOP                       | 94.6   | 70-130 | %Rec     | 1  | 7/6/2016 1:06:57 PM | 26224 |
| EPA METHOD 8015D: GASOLINE RANG  | E      |        |          |    | Analyst             | NSB   |
| Gasoline Range Organics (GRO)    | ND     | 4.8    | mg/Kg    | 1  | 7/5/2016 1:20:58 PM | 26197 |
| Surr: BFB                        | 97.8   | 80-120 | %Rec     | 1  | 7/5/2016 1:20:58 PM | 26197 |
| EPA METHOD 8021B: VOLATILES      |        |        |          |    | Analyst             | NSB   |
| Benzene                          | ND     | 0.024  | mg/Kg    | 1  | 7/5/2016 1:20:58 PM | 26197 |
| Toluene                          | ND     | 0.048  | mg/Kg    | 1  | 7/5/2016 1:20:58 PM | 26197 |
| Ethylbenzene                     | ND     | 0.048  | mg/Kg    | 1  | 7/5/2016 1:20:58 PM | 26197 |
| Xylenes, Total                   | ND     | 0.096  | mg/Kg    | 1  | 7/5/2016 1:20:58 PM | 26197 |
| Surr: 4-Bromofluorobenzene       | 95.0   | 80-120 | %Rec     | 1  | 7/5/2016 1:20:58 PM | 26197 |

| Qualifiers: *                      |  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method    | Blank          |
|------------------------------------|--|---|----|--|----------------|
|                                    | D                                      | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |                |
| H Holding times for preparation or |  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 1 of 5    |
|                                    | ND                                     | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | rage rors      |
|                                    | R RPD outside accepted recovery limits |   | RL | Reporting Detection Limit                    |                |
|                                    | S                                      | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit | t as specified |
|                                    |  |   |    |  |                |

WO#: 1607041

14-Jul-16

| Hall | Environmental | Analysis | La | bora | tory, | Inc. |
|------|---------------|----------|----|------|-------|------|
|------|---------------|----------|----|------|-------|------|

Client: APEX TITAN Project: Trunk MD 16" Hydro

| Sample ID MB-26308                                | SampType: MBLK  | TestCode: EPA Method  | 300.0: Anions                                   | 1             |
|---|---|---|---|---------------|
| Client ID: PBS                                    | Batch ID: 26308   | RunNo: 35546  |   |               |
| Prep Date: 7/8/2016                               | Analysis Date: 7/8/2016   | SeqNo: 1100588  | Units: mg/Kg                                    |               |
| Analyte   | Result PQL SPK value  | SPK Ref Val %REC LowLimit   | HighLimit %RPD                                  | RPDLimit Qual |
| Chloride  | ND 1.5  |   |   |               |
| Sample ID I CS 26209                              |   |   |   |               |
| Sample ID LCS-20300                               | SampType: LCS   | TestCode: EPA Method  | 300.0: Anions                                   |               |
| Client ID: LCSS                                   | SampType: LCS<br>Batch ID: 26308  | TestCode: EPA Method<br>RunNo: 35546  | 300.0: Anions                                   |               |
| Client ID: LCSS<br>Prep Date: 7/8/2016            | SampType: LCS<br>Batch ID: 26308<br>Analysis Date: 7/8/2016                         | TestCode: EPA Method<br>RunNo: 35546<br>SeqNo: 1100589                              | 300.0: Anions<br>Units: mg/Kg                   |               |
| Client ID: LCSS<br>Prep Date: 7/8/2016<br>Analyte | SampType: LCS<br>Batch ID: 26308<br>Analysis Date: 7/8/2016<br>Result PQL SPK value | TestCode: EPA Method<br>RunNo: 35546<br>SeqNo: 1100589<br>SPK Ref Val %REC LowLimit | 300.0: Anions<br>Units: mg/Kg<br>HighLimit %RPD | RPDLimit Qual |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 5

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

4.1

WO#: 1607041

14-Jul-16

APEX TITAN **Client: Project:** Trunk MD 16" Hydro Sample ID MB-26224 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 26224 RunNo: 35437 Units: mg/Kg Prep Date: 7/5/2016 Analysis Date: 7/6/2016 SeqNo: 1096560 SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result PQL HighLimit **RPDLimit** Qual ND 10 **Diesel Range Organics (DRO)** Surr: DNOP 9.5 10.00 94.6 70 130 Sample ID LCS-26224 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 26224 RunNo: 35437 Prep Date: 7/5/2016 Analysis Date: 7/6/2016 SeqNo: 1096561 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Analyte 37 10 74.7 62.6 50.00 0 124 Range Organics (DRO)

82.6

70

130

5.000

#### Qualifiers:

Surr: DNOP

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Ρ Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

- Page 3 of 5

WO#: 1607041

14-Jul-16

| Hall Environmenta | l Analysis | Laboratory, | Inc. |
|-------------------|------------|-------------|------|
|-------------------|------------|-------------|------|

**Client:** APEX TITAN **Project:** 

Trunk MD 16" Hydro

| Sample ID MB-26197  | SampType: MBLK  | TestCode: EPA Method  | 1 8015D: Gasoline Range   |      |
|---|---|---|---|------|
| Prep Date: 7/1/2016   | Analysis Date: 7/5/2016   | SeqNo: 1096243  | Units: mg/Kg  |      |
| Analyte   | Result PQL SPK value  | SPK Ref Val %REC LowLimit   | HighLimit %RPD RPDLimit   | Qual |
| Gasoline Range Organics (GRO)<br>Surr: BFB  | ND 5.0<br>960 1000  | 95.8 80   | 120   |      |
|   |   |   |   |      |
| Sample ID LCS-26197   | SampType: LCS   | TestCode: EPA Method  | 8015D: Gasoline Range   |      |
| Sample ID LCS-26197<br>Client ID: LCSS  | SampType: LCS<br>Batch ID: 26197  | TestCode: EPA Method<br>RunNo: 35429  | I 8015D: Gasoline Range   |      |
| Sample ID LCS-26197<br>Client ID: LCSS<br>Prep Date: 7/1/2016   | SampType: LCS<br>Batch ID: 26197<br>Analysis Date: 7/5/2016   | TestCode: EPA Method<br>RunNo: 35429<br>SeqNo: 1096244  | I 8015D: Gasoline Range<br>Units: mg/Kg                                   |      |
| Sample ID LCS-26197<br>Client ID: LCSS<br>Prep Date: 7/1/2016<br>Analyte                                  | SampType: LCS<br>Batch ID: 26197<br>Analysis Date: 7/5/2016<br>Result PQL SPK value                 | TestCode: EPA Method<br>RunNo: 35429<br>SeqNo: 1096244<br>e SPK Ref Val %REC LowLimit               | I 8015D: Gasoline Range<br>Units: mg/Kg<br>HighLimit %RPD RPDLimit        | Qual |
| Sample ID LCS-26197<br>Client ID: LCSS<br>Prep Date: 7/1/2016<br>Analyte<br>Gasoline Range Organics (GRO) | SampType: LCS<br>Batch ID: 26197<br>Analysis Date: 7/5/2016<br>Result PQL SPK value<br>26 5.0 25.00 | TestCode: EPA Method<br>RunNo: 35429<br>SeqNo: 1096244<br>e SPK Ref Val %REC LowLimit<br>0 0 105 80 | I 8015D: Gasoline Range<br>Units: mg/Kg<br>HighLimit %RPD RPDLimit<br>120 | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Page 4 of 5

WO#: 1607041

Page 5 of 5

14-Jul-16

**Client:** APEX TITAN **Project:** Trunk MD 16" Hydro Sample ID MB-26197 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 26197 RunNo: 35429 Prep Date: 7/1/2016 Analysis Date: 7/5/2016 SeqNo: 1096264 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene 0.050 Toluene ND Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.95 1.000 94.6 80 120

| Sample ID LCS-26197                         | Tes    | TestCode: EPA Method 8021B: Volatiles |           |                   |         |          |             |      |          |      |
|---|--------|---------------------------------------|-----------|-------------------|---------|----------|-------------|------|----------|------|
| Client ID: LCSS                             | Batch  | n ID: 26                              | 197       | R                 | unNo: 3 |          |             |      |          |      |
| Prep Date: 7/1/2016 Analysis Date: 7/5/2016 |        |                                       |           | SeqNo: 1096265 Ur |         |          | Units: mg/K | g    |          |      |
| Analyte                                     | Result | PQL                                   | SPK value | SPK Ref Val       | %REC    | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Benzene                                     | 0.92   | 0.025                                 | 1.000     | 0                 | 91.8    | 75.3     | 123         |      |          |      |
| Toluene                                     | 0.93   | 0.050                                 | 1.000     | 0                 | 92.7    | 80       | 124         |      |          |      |
| Ethylbenzene                                | 0.96   | 0.050                                 | 1.000     | 0                 | 96.3    | 82.8     | 121         |      |          |      |
| Xylenes, Total                              | 2.8    | 0.10                                  | 3.000     | 0                 | 94.4    | 83.9     | 122         |      |          |      |
| Surr: 4-Bromofluorobenzene                  | 1.0    |                                       | 1.000     |                   | 103     | 80       | 120         |      |          |      |

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY  | ttau Environmental<br>Albi<br>TEL: 505-345-3975<br>Website: www.ha | Analysis Lai<br>4901 Haw<br>uquerque, Ni<br>FAX: 505-3<br>illenvironme | boratory<br>vkins NE<br>M 87109 Sat<br>45-4107<br>ntal.com | m <b>ple Log-I</b> n C | Check List         |
|--|--|--|--|------------------------|--------------------|
| Client Name: APEX AZTEC  | Work Order Number  | 1607041  |  | RcptNo                 | : 1                |
| Received by/date:  | 0630 11  |  |  |                        |                    |
| Logged By: Lindsay Mangin  | 6/30/2016 8:05:00 AM   | ,  | July Mg  | Ð                      |                    |
| Completed By: Lindsay Mangin   | 7/1/2016 12:36:12 PM   |  | CH SHALL   | ର                      |                    |
| Reviewed By: as  | 71116  |  | 000  |                        |                    |
| Chain of Custody   |  |  |  |                        |                    |
| 1. Custody seals intact on sample bottles?   |  | Yes 🛛  | No 🗌   | Not Present            |                    |
| 2. Is Chain of Custody complete?   |  | Yes 🗹  | No 🗌   | Not Present            |                    |
| 3. How was the sample delivered?   |  | Courier  |  |                        |                    |
| Log In   |  |  |  |                        |                    |
| 4. Was an attempt made to cool the samples?  | ,  | Yes 🗹  | No 🗌   |                        |                    |
| 5. Were all samples received at a temperature  | of >0° C to 6.0°C  | Yes 🗹  | No 🗆   |                        |                    |
| 6. Sample(s) in proper container(s)?   |  | Yes 🗹  | No   | ]                      |                    |
| 7, Sufficient sample volume for indicated test(s   | )?   | Yes 🗹  | No 🗌   |                        |                    |
| 8. Are samples (except VOA and ONG) proper   | ty preserved?  | Yes 🗹  | No 🗌   |                        |                    |
| 9. Was preservative added to bottles?  |  | Yes 🗌  | No 🗹   | NA 🗆                   |                    |
| 10. VOA vials have zero headspace?   |  | Yes 🗌  | No 🗌   | No VOA Vials 🗹         |                    |
| 11. Were any sample containers received broke  | en?  | Yes  | No V   | di ef en en en et      |                    |
|  |  | G  |  | bottles checked        |                    |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)          |  | Yes 🗹  | No   | tor pH: (<2            | or >12 unless note |
| 13. Are matrices correctly identified on Chain of  | Custody?   | Yes 🗹  | No 🗆   | Adjusted?              |                    |
| 14. Is it clear what analyses were requested?  |  | Yes 🗹  | No 🗌   |                        |                    |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.)    |  | Yes 🗹  | No 🗌   | Checked by:            |                    |
| <b>Special Handling (If applicable)</b><br>16. Was client notified of all discrepancies with | this order?  | Yes  | No 🗌   | na 🗹                   |                    |
| Person Notified:   | Date   |  | m 1.9  | -                      |                    |
| By Whom:   | Via:   | eMail (  | Phone 🗌 Fa   | x 🗌 In Person          |                    |
| Regarding:   |  |  |  |                        |                    |
| Client Instructions:   |  |  |  |                        |                    |
| 17. Additional remarks:  |  |  |  |                        |                    |
| 18. Cooler Information   |  |  |  |                        |                    |
| Cooler No Temp °C Condition S  | eal Intact Seal No   | Seal Date  | Signed By  |                        |                    |
| 1 1.1 Good Ye  |  |  |  |                        |                    |

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|                                      |      |                 |      |                            |            |       |       |   |  |           |                                    |                  |             |         |                     |           |                         |                               |         |      |     |     |    | C | HAIN | N OF | CU     | ISTOD          | Y REC               | COR  |
|--------------------------------------|------|-----------------|------|----------------------------|------------|-------|-------|---|--|-----------|------------------------------------|------------------|-------------|---------|---------------------|-----------|-------------------------|-------------------------------|---------|------|-----|-----|----|---|------|------|--------|----------------|---------------------|------|
| A                                    | P    | ν<br>Έ          | <    |                            |            |       |       | •   | Laboratory<br>Address:   | :<br>Aibi | Hall                               | Envi             | nin vor     | Ime     | nte                 | <u>a </u> | ANA                     | ALYSI<br>QUES                 | S       | []   | /   | /   | /  | / | /    |      |        | ab use of of c | only<br>:<br>colers |      |
| Offic                                | ce l | Locat           | ion  |                            | 121        | ec    | N     | M   | Contact:   | Ai        | Free                               | mai              | ŋ           |         |                     | _         |                         |                               | Top     | 9/   | //  | //  | /  | / | //   |      | V<br>1 | 2              | ved (C°):           | 1./  |
| Proj<br>Samp                         | ect  | t Man<br>'s Nam | age  | ər'                        | KS         | ur    | nm    | aus   | PO/SO #:<br>Sampler's Sig  | nature    | . 4                                |                  |             |         |                     | _         |                         | E                             | at are  | SP   |     | / / |    | / |      | /    | ,      | aye — r        |                     |      |
| Ra<br>Proj.                          | No.  | ee T            | Ye   | echi                       | F          | Proje | ect N | ame   | RDe  | chil      | 20,                                | No/T             | ype of C    | Contair | ners                |           |                         | 8 100                         | Hory    | 1    | /   | /   | /  | / |      |      |        |                |                     |      |
| Matrix                               | ¢    | Date            |      | Time                       |            | CoEn  | Grab  | Identifying N   | ILG" Hydri<br>Iarks of Sample(s)   | Start     | End<br>Depth                       | VOA              | A/G<br>1 LL | al 250  | Glass<br>Jar        | D/O       |                         |                               | //      |      | //  | //  |    | / | /    | Lab  | Sam    | ple ID (La     | b Use On            | ıly) |
| S                                    | 6    | 129 X           | 00   | 575(                       | 2          |       |       | wp  | -6   |           |                                    |                  |             |         | 1                   |           | X                       | ×                             | x       |      |     |     |    |   |      | 16   | FC     | 04             |                     | DI   |
| _                                    |      |                 | +    | <                          |            | _     |       |   |  |           |                                    |                  |             |         |                     |           |                         |                               |         |      |     | _   |    |   |      |      |        |                |                     |      |
|                                      |      |                 |      |                            |            |       |       |   | MRS  |           |                                    |                  |             |         |                     |           |                         |                               |         |      |     |     |    |   |      |      |        |                |                     |      |
|                                      |      |                 |      |                            |            |       |       |   |  |           |                                    |                  |             |         |                     |           |                         |                               |         |      |     |     |    |   |      |      |        |                |                     |      |
|                                      |      |                 |      |                            |            |       |       |   |  |           |                                    |                  |             |         |                     |           |                         |                               |         |      |     |     |    |   |      |      |        |                |                     |      |
| Turn a<br>Reline<br>Reline<br>Reline |      | shed by         |      | ignatu<br>ignatu<br>ignatu | re)<br>re) |       |       | 25% Rush<br>Date:<br>0/21/16 /<br>Date!<br>0/29/16<br>Date! | 150% Rush           Time:         Rece           2.5 4         2           Time:         Rece           8.5 7         1           Time:         Rece | ived by:  | Rush<br>(Signa<br>(Signa<br>(Signa | ature)<br>ature) |             | 0       | Date<br>Date<br>G/7 | 11        | Tir<br>12<br>Tir<br>080 | me:<br>54<br>me:<br>05<br>me: | NOTI    | B,   | 11+ | 0-  | To | m | Lor  | ng i | E      | POR            | )                   |      |
| Relin                                | quis | shed by         | y (S | ignatu                     | re)        |       |       | Date:   | Time: Rece   | ived by:  | (Signa                             | ature)           |             |         | Date                | :         | Tir                     | me:                           | 0       |      |     | -   |    |   |      |      |        |                |                     |      |
| Contai                               | iner | , v             | OA   | - 40 ml                    | vial       | ſ     |       | A/G - Amber /   | Or Glass 1 Liter   |           | 250 ml -                           | Glass            | wide mo     | suth    | PA                  | D - Pl    | astic or                | other_                        | JL - SI | laĝe | 0   |     | -  |   |      |      |        |                |                     |      |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 06, 2016.

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

OrderNo.: 1606F25

RE: Trunk MD 16" Hydro

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/28/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 7/6/2016

## Hall Environmental Analysis Laboratory, Inc.

| Amalaisaa       |              |       | Decult  | POI Qual               | Unite      | DE Data Analyzad            | R |  |  |  |  |  |
|-----------------|--------------|-------|---------|------------------------|------------|-----------------------------|---|--|--|--|--|--|
| Lab ID:         | 1606F25-001  |       | Matrix: | SOIL                   | Received   | Date: 6/28/2016 8:00:00 AM  |   |  |  |  |  |  |
| <b>Project:</b> | Trunk MD 16" | Hydro |         |                        | Collection | Date: 6/27/2016 11:40:00 AM | 1 |  |  |  |  |  |
| CLIENT:         | APEX TITAN   |       |         | Client Sample ID: WP-1 |            |                             |   |  |  |  |  |  |

| Analyses                        | Result     | PQL Qu | al Units | DF | Date Analyzed         | Batch |
|---------------------------------|------------|--------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS        |            |        |          |    | Analyst               | LGT   |
| Chloride                        | ND         | 30     | mg/Kg    | 20 | 7/1/2016 2:41:18 PM   | 26203 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS | 1      |          |    | Analyst               | TOM   |
| Diesel Range Organics (DRO)     | ND         | 9.8    | mg/Kg    | 1  | 6/30/2016 10:20:04 AM | 26153 |
| Surr: DNOP                      | 90.5       | 70-130 | %Rec     | 1  | 6/30/2016 10:20:04 AM | 26153 |
| EPA METHOD 8015D: GASOLINE RAN  | GE         |        |          |    | Analyst               | NSB   |
| Gasoline Range Organics (GRO)   | ND         | 4.9    | mg/Kg    | 1  | 6/29/2016 9:07:51 PM  | 26117 |
| Surr: BFB                       | 98.1       | 80-120 | %Rec     | 1  | 6/29/2016 9:07:51 PM  | 26117 |
| EPA METHOD 8021B: VOLATILES     |            |        |          |    | Analyst               | NSB   |
| Benzene                         | ND         | 0.024  | mg/Kg    | 1  | 6/29/2016 9:07:51 PM  | 26117 |
| Toluene                         | ND         | 0.049  | mg/Kg    | 1  | 6/29/2016 9:07:51 PM  | 26117 |
| Ethylbenzene                    | ND         | 0.049  | mg/Kg    | 1  | 6/29/2016 9:07:51 PM  | 26117 |
| Xylenes, Total                  | ND         | 0.097  | mg/Kg    | 1  | 6/29/2016 9:07:51 PM  | 26117 |
| Surr: 4-Bromofluorobenzene      | 91.9       | 80-120 | %Rec     | 1  | 6/29/2016 9:07:51 PM  | 26117 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 1 of 9    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

Date Reported: 7/6/2016

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITANClient Sample ID: WP-2Project:Trunk MD 16" HydroCollection Date: 6/27/2016 11:50:00 AMLab ID:1606F25-002Matrix: SOILReceived Date: 6/28/2016 8:00:00 AM

| Analyses                         | Result   | PQL Qual | Units | DF | Date Analyzed         | Batch |
|----------------------------------|----------|----------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         |          |          |       |    | Analyst:              | LGT   |
| Chloride                         | ND       | 30       | mg/Kg | 20 | 7/1/2016 3:18:32 PM   | 26203 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS |          |       |    | Analyst:              | TOM   |
| Diesel Range Organics (DRO)      | ND       | 9.6      | mg/Kg | 1  | 6/30/2016 11:49:23 AM | 26153 |
| Surr: DNOP                       | 90.3     | 70-130   | %Rec  | 1  | 6/30/2016 11:49:23 AM | 26153 |
| EPA METHOD 8015D: GASOLINE RANGE |          |          |       |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND       | 4.9      | mg/Kg | 1  | 6/29/2016 9:31:24 PM  | 26117 |
| Surr: BFB                        | 98.7     | 80-120   | %Rec  | 1  | 6/29/2016 9:31:24 PM  | 26117 |
| EPA METHOD 8021B: VOLATILES      |          |          |       |    | Analyst:              | NSB   |
| Benzene                          | ND       | 0.024    | mg/Kg | 1  | 6/29/2016 9:31:24 PM  | 26117 |
| Toluene                          | ND       | 0.049    | mg/Kg | 1  | 6/29/2016 9:31:24 PM  | 26117 |
| Ethylbenzene                     | ND       | 0.049    | mg/Kg | 1  | 6/29/2016 9:31:24 PM  | 26117 |
| Xylenes, Total                   | ND       | 0.097    | mg/Kg | 1  | 6/29/2016 9:31:24 PM  | 26117 |
| Surr: 4-Bromofluorobenzene       | 93.7     | 80-120   | %Rec  | 1  | 6/29/2016 9:31:24 PM  | 26117 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.           |
|-------------|----|--|
|             | D  | Sample Diluted Due to Matrix                       |
|             | н  | Holding times for preparation or analysis exceeded |
|             | ND | Not Detected at the Reporting Limit                |
|             |    |  |

- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Date Reported: 7/6/2016

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: WP-3

 Project:
 Trunk MD 16" Hydro
 Collection Date: 6/27/2016 12:00:00 PM

 Lab ID:
 1606F25-003
 Matrix: SOIL
 Received Date: 6/28/2016 8:00:00 AM

 Analyses
 Result
 POL
 Oual
 Units
 DF
 Date Analyzed
 Batch

| r mary ses                      | Rebuit     | r dr da | ai enito | 21 | Dute Minighten        | Duten |
|---------------------------------|------------|---------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS        |            |         |          |    | Analyst               | LGT   |
| Chloride                        | ND         | 30      | mg/Kg    | 20 | 7/1/2016 3:30:57 PM   | 26203 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS |         |          |    | Analyst               | TOM   |
| Diesel Range Organics (DRO)     | ND         | 10      | mg/Kg    | 1  | 6/30/2016 12:11:14 PM | 26153 |
| Surr: DNOP                      | 97.6       | 70-130  | %Rec     | 1  | 6/30/2016 12:11:14 PM | 26153 |
| EPA METHOD 8015D: GASOLINE RAN  | GE         |         |          |    | Analyst               | NSB   |
| Gasoline Range Organics (GRO)   | ND         | 5.0     | mg/Kg    | 1  | 6/29/2016 9:54:56 PM  | 26117 |
| Surr: BFB                       | 99.0       | 80-120  | %Rec     | 1  | 6/29/2016 9:54:56 PM  | 26117 |
| EPA METHOD 8021B: VOLATILES     |            |         |          |    | Analyst               | NSB   |
| Benzene                         | ND         | 0.025   | mg/Kg    | 1  | 6/29/2016 9:54:56 PM  | 26117 |
| Toluene                         | ND         | 0.050   | mg/Kg    | 1  | 6/29/2016 9:54:56 PM  | 26117 |
| Ethylbenzene                    | ND         | 0.050   | mg/Kg    | 1  | 6/29/2016 9:54:56 PM  | 26117 |
| Xylenes, Total                  | ND         | 0.10    | mg/Kg    | 1  | 6/29/2016 9:54:56 PM  | 26117 |
| Surr: 4-Bromofluorobenzene      | 95.3       | 80-120  | %Rec     | 1  | 6/29/2016 9:54:56 PM  | 26117 |
|                                 |            |         |          |    |                       |       |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                            |
|             | н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 3 of 9    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

**Analytical Report** 

#### Lab Order 1606F25

Date Reported: 7/6/2016

#### Hall Environmental Analysis Laboratory, Inc.

1

#### **CLIENT: APEX TITAN Client Sample ID: WP-4** Trunk MD 16" Hydro Collection Date: 6/27/2016 12:10:00 PM **Project:** Lab ID: 1606F25-004 Matrix: SOIL Received Date: 6/28/2016 8:00:00 AM Result **PQL** Qual Units **DF** Date Analyzed Analyses Batch HOD 200 0. ANIONS . . . ----

| EPA METHOD 300.0: ANIONS         |          |        |       |    | Analyst:              | LGI   |
|----------------------------------|----------|--------|-------|----|-----------------------|-------|
| Chloride                         | ND       | 30     | mg/Kg | 20 | 7/1/2016 3:43:21 PM   | 26203 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 8      |       |    | Analyst:              | том   |
| Diesel Range Organics (DRO)      | ND       | 10     | mg/Kg | 1  | 6/30/2016 12:33:00 PM | 26153 |
| Surr: DNOP                       | 90.3     | 70-130 | %Rec  | 1  | 6/30/2016 12:33:00 PM | 26153 |
| EPA METHOD 8015D: GASOLINE RANGE |          |        |       |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND       | 4.9    | mg/Kg | 1  | 6/29/2016 10:18:25 PM | 26117 |
| Surr: BFB                        | 101      | 80-120 | %Rec  | 1  | 6/29/2016 10:18:25 PM | 26117 |
| EPA METHOD 8021B: VOLATILES      |          |        |       |    | Analyst:              | NSB   |
| Benzene                          | ND       | 0.025  | mg/Kg | 1  | 6/29/2016 10:18:25 PM | 26117 |
| Toluene                          | ND       | 0.049  | mg/Kg | 1  | 6/29/2016 10:18:25 PM | 26117 |
| Ethylbenzene                     | ND       | 0.049  | mg/Kg | 1  | 6/29/2016 10:18:25 PM | 26117 |
| Xylenes, Total                   | ND       | 0.098  | mg/Kg | 1  | 6/29/2016 10:18:25 PM | 26117 |
| Surr: 4-Bromofluorobenzene       | 94.8     | 80-120 | %Rec  | 1  | 6/29/2016 10:18:25 PM | 26117 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method  | Blank <sup>.</sup> |
|-------------|----|---|----|--|--------------------|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range             |                    |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits | Page 4 of 9        |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                     | 1 age + 01 7       |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                  |                    |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of lim | it as specified    |
|             |    |   |    |  |                    |

Date Reported: 7/6/2016

6/29/2016 10:41:55 PM 26117

6/29/2016 10:41:55 PM 26117

6/29/2016 10:41:55 PM 26117

6/29/2016 10:41:55 PM 26117

#### Hall Environmental Analysis Laboratory, Inc.

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

| CLIENT:<br>Project: | APEX TITAN<br>Trunk MD 16" Hydro | Client Sample ID: WP-5<br>Collection Date: 6/27/2016 12:20:00 PM |         |         |           |                       |       |  |  |  |
|---------------------|----------------------------------|--|---------|---------|-----------|-----------------------|-------|--|--|--|
| Lab 1D: 1606F25-005 |                                  | Result   | PQL Qua | I Units | Date: 6/2 | Date Analyzed         | Batch |  |  |  |
| EPA MET             | HOD 300.0: ANIONS                |  |         |         |           | Analyst               | LGT   |  |  |  |
| Chloride            |                                  | ND   | 30      | mg/Kg   | 20        | 7/1/2016 3:55:46 PM   | 26203 |  |  |  |
| EPA MET             | HOD 8015M/D: DIESEL RA           | NGE ORGANICS   | 5       |         |           | Analyst               | TOM   |  |  |  |
| Diesel Ra           | ange Organics (DRO)              | ND   | 10      | mg/Kg   | 1         | 6/30/2016 12:55:02 PM | 26153 |  |  |  |
| Surr: D             | ONOP                             | 88.2   | 70-130  | %Rec    | 1         | 6/30/2016 12:55:02 PM | 26153 |  |  |  |
| EPA MET             | HOD 8015D: GASOLINE RA           | ANGE   |         |         |           | Analyst               | NSB   |  |  |  |
| Gasoline            | Range Organics (GRO)             | ND   | 5.0     | mg/Kg   | 1         | 6/29/2016 10:41:55 PM | 26117 |  |  |  |
| Surr: E             | BFB                              | 97.8   | 80-120  | %Rec    | 1         | 6/29/2016 10:41:55 PM | 26117 |  |  |  |
| EPA MET             | HOD 8021B: VOLATILES             |  |         |         |           | Analyst               | NSB   |  |  |  |
| Benzene             |                                  | ND   | 0.025   | mg/Kg   | 1         | 6/29/2016 10:41:55 PM | 26117 |  |  |  |

0.050

0.050

0.10

80-120

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

ND

ND

ND

90.5

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method B  | Blank        |
|-------------|----|---|----|--|--------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |              |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 5 of 0  |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | 1 age 5 01 9 |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |              |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit | as specified |
|             |    |   |    |  |              |

Hall Environmental Analysis Laboratory, Inc.

APEX TITAN **Client:** 

Trunk MD 16" Hydro **Project:** 

| Sample ID MB-26203   | SampType: MBLK  | TestCode: EPA Method  | 300.0: Anions  |    |
|--|---|---|--|----|
| Client ID: PBS   | Batch ID: 26203   | RunNo: 35411  |  |    |
| Prep Date: 7/1/2016  | Analysis Date: 7/1/2016   | SeqNo: 1095690  | Units: mg/Kg   |    |
| Analyte  | Result PQL SPK value  | SPK Ref Val %REC LowLimit   | HighLimit %RPD RPDLimit Qua  | al |
| Chloride   | ND 1.5  |   |  |    |
|  |   |   |  |    |
| Sample ID LCS-26203  | SampType: LCS   | TestCode: EPA Method  | 300.0: Anions  |    |
| Sample ID LCS-26203<br>Client ID: LCSS                                   | SampType: LCS<br>Batch ID: 26203  | TestCode: EPA Method<br>RunNo: 35411  | 300.0: Anions  |    |
| Sample ID LCS-26203<br>Client ID: LCSS<br>Prep Date: 7/1/2016            | SampType: LCS<br>Batch ID: 26203<br>Analysis Date: 7/1/2016                         | TestCode: EPA Method<br>RunNo: 35411<br>SeqNo: 1095691                              | 300.0: Anions<br>Units: mg/Kg  |    |
| Sample ID LCS-26203<br>Client ID: LCSS<br>Prep Date: 7/1/2016<br>Analyte | SampType: LCS<br>Batch ID: 26203<br>Analysis Date: 7/1/2016<br>Result PQL SPK value | TestCode: EPA Method<br>RunNo: 35411<br>SeqNo: 1095691<br>SPK Ref Val %REC LowLimit | <b>300.0: Anions</b><br>Units: <b>mg/Kg</b><br>HighLimit %RPD RPDLimit Qua | al |

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Page 6 of 9

06-Jul-16

WO#: 1606F25

06-Jul-16

### Hall Environmental Analysis Laboratory, Inc.

| Client:  | APEX IIIAN         |
|----------|--------------------|
| Project: | Trunk MD 16" Hydro |

| Sample ID LCS-26153   | SampT  | ype: LC  | s  | TestCode: EPA Method 8015M/D: Diesel Range Organics         |  |  |  |  |  |      |
|---|--|--|--|---|--|--|--|--|--|------|
| Client ID: LCSS   | Batch ID: 26153  |  |  | RunNo: 35335  |  |  |  |  |  |      |
| Prep Date: 6/29/2016  | Analysis Date: 6/30/2016   |  |  | SeqNo: 1093643 U  |  |  | Units: mg/Kg   |  |  |      |
| Analyte   | Result   | PQL  | SPK value  | SPK Ref Val   | %REC   | LowLimit   | HighLimit  | %RPD   | RPDLimit   | Qual |
| Diesel Range Organics (DRO)   | 51   | 10   | 50.00  | 0   | 103  | 62.6   | 124  |  |  |      |
| Surr: DNOP  | 4.6  |  | 5.000  |   | <mark>91.0</mark>  | 70   | 130  |  |  |      |
| Sample ID MB-26153  | SampT  | ype: ME  | BLK  | Tes   | tCode: E   | PA Method  | 8015M/D: Di  | iesel Rang   | e Organics   |      |
| Client ID: PBS  | Batch  | h ID: 26   | 153  | F   | RunNo: 3   | 5335   |  |  |  |      |
| Prep Date: 6/29/2016  | Analysis D   | ate: 6/  | 30/2016  | 5   | SeqNo: 1   | 093644   | Units: mg/l  | Kg   |  |      |
| Analyte   | Result   | PQL  | SPK value  | SPK Ref Val   | %REC   | LowLimit   | HighLimit  | %RPD   | RPDLimit   | Qual |
|   | ND   | 10   |  |   |  |  |  |  |  |      |
| Diesel Range Organics (DRO)   | ND   | 10   |  |   |  |  |  |  |  |      |
| Diesel Range Organics (DRO)<br>Surr: DNOP   | 8.6  | 10   | 10.00  | 8   | 86.4   | 70   | 130  |  |  |      |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS   | 8.6<br>SampT   | ype: MS  | 10.00  | Tes   | 86.4<br>tCode: E   | 70<br>PA Method  | 130<br>8015M/D: Di   | esel Rang  | e Organics   |      |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1  | 8.6<br>SampT<br>Batch  | Type: MS   | 10.00<br>S<br>153  | Tes   | 86.4<br>tCode: E<br>RunNo: 3   | 70<br>PA Method<br>5334  | 130<br>8015M/D: Di   | iesel Range  | e Organics   |      |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016  | 8.6<br>SampT<br>Batch<br>Analysis D  | Type: MS<br>h ID: 26<br>Date: 6/   | 10.00<br>5<br>153<br>/30/2016  | Tes<br>F<br>S   | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1   | 70<br>PA Method<br>5334<br>094441  | 130<br>8015M/D: Di<br>Units: mg/ł  | iesel Rang   | e Organics   |      |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte   | 8.6<br>SampT<br>Batch<br>Analysis D<br>Result  | Type: MS<br>h ID: 26<br>Date: 6/<br>PQL  | 10.00<br>3<br>153<br>130/2016<br>SPK value   | Tes<br>F<br>SPK Ref Val                                     | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC   | 70<br>PA Method<br>5334<br>094441<br>LowLimit  | 130<br>8015M/D: Di<br>Units: mg/ł<br>HighLimit   | iesel Rang<br>Kg<br>%RPD                                       | e Organics<br>RPDLimit                                 | Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO)  | 8.6<br>SampT<br>Batch<br>Analysis D<br>Result<br>43  | Type: MS<br>In ID: 26<br>Date: 6/<br>PQL<br>9.6  | 10.00<br>5<br>153<br>30/2016<br>SPK value<br>48.03   | Tes<br>F<br>S<br>SPK Ref Val<br>2.386                       | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>84.6   | 70<br>PA Method<br>5334<br>094441<br>LowLimit<br>33.9  | 130<br>8015M/D: Di<br>Units: mg/l<br>HighLimit<br>141  | iesel Rang<br>Kg<br>%RPD                                       | e Organics<br>RPDLimit                                 | Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO)<br>Surr: DNOP  | 8.6<br>SampT<br>Batch<br>Analysis D<br>Result<br>43<br>4.2   | Fype: MS<br>h ID: 26<br>Date: 6/<br>PQL<br>9.6   | 10.00<br>5<br>153<br>30/2016<br>SPK value<br>48.03<br>4.803  | Tes<br>F<br>SPK Ref Val<br>2.386                            | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>84.6<br>86.6   | 70<br>PA Method<br>5334<br>094441<br>LowLimit<br>33.9<br>70  | 130<br>8015M/D: Di<br>Units: mg/H<br>HighLimit<br>141<br>130   | iesel Rang<br>Kg<br>%RPD                                       | e Organics<br>RPDLimit                                 | Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS  | 8.6<br>SampT<br>Batch<br>Analysis D<br>Result<br>43<br>4.2<br>iD SampT   | ype: MS<br>h ID: 26<br>Date: 6/<br>PQL<br>9.6  | 10.00<br>5<br>153<br>30/2016<br>SPK value<br>48.03<br>4.803<br>5D  | Tes<br>F<br>SPK Ref Val<br>2.386<br>Tes                     | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>84.6<br>86.6<br>tCode: E   | 70<br>PA Method<br>5334<br>094441<br>LowLimit<br>33.9<br>70<br>PA Method                                       | 130<br>8015M/D: Di<br>Units: mg/l<br>HighLimit<br>141<br>130<br>8015M/D: Di                                    | kg<br>%RPD<br>wesel Rang                                       | e Organics<br>RPDLimit                                 | Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1   | 8.6<br>SampT<br>Batch<br>Analysis D<br>Result<br>43<br>4.2<br>D SampT<br>Batch                                 | Type: MS<br>b ID: 26<br>Date: 6/<br>9.6<br>Type: MS<br>to ID: 26                           | 10.00<br>5<br>153<br>30/2016<br>SPK value<br>48.03<br>4.803<br>35D<br>153  | Tes<br>F<br>SPK Ref Val<br>2.386<br>Tes<br>F                | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>84.6<br>86.6<br>tCode: E<br>RunNo: 3                             | 70<br>PA Method<br>5334<br>094441<br>LowLimit<br>33.9<br>70<br>PA Method<br>5334                               | 130<br>8015M/D: Di<br>Units: mg/l<br>HighLimit<br>141<br>130<br>8015M/D: Di                                    | kg<br>%RPD   | e Organics<br>RPDLimit<br>e Organics                   | Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016   | 8.6<br>SampT<br>Batch<br>Analysis D<br>Result<br>43<br>4.2<br>D SampT<br>Batch<br>Analysis D                   | Fype: MS<br>h ID: 26<br>Date: 6/<br>9.6<br>Fype: MS<br>h ID: 26<br>Date: 6/                | 10.00<br>5<br>153<br>30/2016<br>SPK value<br>48.03<br>4.803<br>35D<br>153<br>30/2016                               | Tes<br>SPK Ref Val<br>2.386<br>Tes<br>Fa                    | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>84.6<br>86.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1                 | 70<br>PA Method<br>5334<br>094441<br>LowLimit<br>33.9<br>70<br>PA Method<br>5334<br>094442                     | 130<br>8015M/D: Di<br>Units: mg/l<br>HighLimit<br>141<br>130<br>8015M/D: Di<br>Units: mg/l                     | kg<br>%RPD<br>kesel Rang                                       | e Organics<br>RPDLimit<br>e Organics                   | Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte                                | 8.6<br>SampT<br>Batch<br>Analysis D<br>Result<br>43<br>4.2<br>D SampT<br>Batch<br>Analysis D<br>Result         | Type: MS<br>bate: 6/<br>9.6<br>Type: MS<br>Type: MS<br>bate: 6/<br>PQL                     | 10.00<br>5<br>153<br>30/2016<br>SPK value<br>48.03<br>4.803<br>30<br>153<br>30/2016<br>SPK value                   | Tes<br>F<br>SPK Ref Val<br>2.386<br>Tes<br>F<br>SPK Ref Val | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>84.6<br>86.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC         | 70<br>PA Method<br>5334<br>094441<br>LowLimit<br>33.9<br>70<br>PA Method<br>5334<br>094442<br>LowLimit         | 130<br>8015M/D: Di<br>Units: mg/k<br>HighLimit<br>141<br>130<br>8015M/D: Di<br>Units: mg/k<br>HighLimit        | kg<br>%RPD<br>kesel Range<br>kg<br>%RPD                        | e Organics<br>RPDLimit<br>e Organics                   | Qual |
| Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO)<br>Surr: DNOP<br>Sample ID 1606F25-001AMS<br>Client ID: WP-1<br>Prep Date: 6/29/2016<br>Analyte<br>Diesel Range Organics (DRO) | 8.6<br>8 SampT<br>Batch<br>Analysis D<br>Result<br>43<br>4.2<br>9 SampT<br>Batch<br>Analysis D<br>Result<br>46 | Type: MS<br>bate: 6/<br>PQL<br>9.6<br>Type: MS<br>bate: 6/<br>PQL<br>Date: 6/<br>PQL<br>10 | 10.00<br>3<br>153<br>30/2016<br>SPK value<br>48.03<br>4.803<br>4.803<br>5D<br>153<br>30/2016<br>SPK value<br>50.56 | Tes<br>SPK Ref Val<br>2.386<br>Tes<br>SPK Ref Val<br>2.386  | 86.4<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>84.6<br>86.6<br>tCode: E<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>87.0 | 70<br>PA Method<br>5334<br>094441<br>LowLimit<br>33.9<br>70<br>PA Method<br>5334<br>094442<br>LowLimit<br>33.9 | 130<br>8015M/D: Di<br>Units: mg/l<br>HighLimit<br>141<br>130<br>8015M/D: Di<br>Units: mg/l<br>HighLimit<br>141 | kg<br>%RPD<br>kesel Range<br>kesel Range<br>kg<br>%RPD<br>7.55 | e Organics<br>RPDLimit<br>e Organics<br>RPDLimit<br>20 | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

Sample pH Not In Range

- J Analyte detected below quantitation limits

Page 7 of 9

RL Reporting Detection Limit

Р

W Sample container temperature is out of limit as specified

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

## C t: APEX TITAN

| Sample ID MB-26117   | Samp                                       | Type: ME                                       | BLK                                       | TestCode: EPA Method 8015D: Gasoline Range |  |   |  |                          |               |      |
|--|--|--|---|--|--|---|--|--------------------------|---------------|------|
| Client ID: PBS   | Batch ID: 26117                            |  |   | F  | RunNo: 35307                                       |   |  |                          |               |      |
| Prep Date: 6/28/2016   | Analysis Date: 6/29/2016                   |  |   | S  | SeqNo: 1092208 Units: mg/Kg                        |   |  |                          |               |      |
| Analyte  | Result                                     | PQL  | SPK value                                 | SPK Ref Val                                | %REC   | LowLimit                                      | HighLimit                                      | %RPD                     | RPDLimit      | Qual |
| Gasoline Range Organics (GRO)  | ND   | 5.0  |   |  |  |   |  |                          |               |      |
| Surr: BFB  | 990  |  | 1000                                      |  | 99.3   | 80  | 120  |                          |               |      |
|  | SamnType: ICS TestCode:                    |  |   |  |  |   |  |                          |               |      |
| Sample ID LCS-26117  | Samp                                       | Type: LC                                       | S   | Tes  | tCode: Ef  | PA Method                                     | 8015D: Gaso                                    | oline Rang               | e             |      |
| Sample ID LCS-26117<br>Client ID: LCSS   | Samp <sup>-</sup><br>Batc                  | Гуре: LC<br>h ID: 26                           | S<br>117                                  | Tes  | tCode: Ef  | PA Method<br>5307                             | 8015D: Gaso                                    | oline Rang               | e             |      |
| Sample ID LCS-26117<br>Client ID: LCSS<br>Prep Date: 6/28/2016   | Samp<br>Batc<br>Analysis [                 | Гуре: LC<br>h ID: 26<br>Date: 6/               | S<br>117<br>29/2016                       | Tes<br>F                                   | tCode: EF<br>RunNo: 3<br>SeqNo: 10                 | PA Method<br>5307<br>092209                   | 8015D: Gaso<br>Units: mg/F                     | bline Rang               | e             |      |
| Sample ID LCS-26117<br>Client ID: LCSS<br>Prep Date: 6/28/2016<br>Analyte                                  | Samp<br>Batc<br>Analysis I<br>Result       | Type: LC<br>h ID: 26<br>Date: 6/<br>PQL        | S<br>117<br>29/2016<br>SPK value          | Tes<br>F<br>S<br>SPK Ref Val               | tCode: EF<br>RunNo: 34<br>SeqNo: 10<br>%REC        | PA Method<br>5307<br>092209<br>LowLimit       | 8015D: Gaso<br>Units: mg/k<br>HighLimit        | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID LCS-26117<br>Client ID: LCSS<br>Prep Date: 6/28/2016<br>Analyte<br>Gasoline Range Organics (GRO) | Samp<br>Batc<br>Analysis I<br>Result<br>27 | Fype: LC<br>h ID: 26<br>Date: 6/<br>PQL<br>5.0 | S<br>117<br>29/2016<br>SPK value<br>25.00 | Tes<br>F<br>S<br>SPK Ref Val<br>0          | tCode: EF<br>RunNo: 34<br>SeqNo: 10<br>%REC<br>110 | PA Method<br>5307<br>092209<br>LowLimit<br>80 | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>120 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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1606F25

WO#:

06-Jul-16

|--|

WO#: 1606F25

06-Jul-16

### Hall Environmental Analysis Laboratory, Inc.

**Client: Project:** 

APEX TITAN Trunk MD 16" Hydro

| Sample ID MB-26117         | SampT      | SampType: MBLK TestCode: EPA Method |           |             |          |           |             | tiles | ,        |      |
|----------------------------|------------|-------------------------------------|-----------|-------------|----------|-----------|-------------|-------|----------|------|
| Client ID: PBS             | Batcl      | n ID: 26                            | 117       | F           | RunNo: 3 | lo: 35307 |             |       |          |      |
| Prep Date: 6/28/2016       | Analysis D | )ate: 6/                            | 29/2016   | 5           | SeqNo: 1 | 092238    | Units: mg/k | ٢g    |          |      |
| Analyte                    | Result     | PQL                                 | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual |
| Benzene                    | ND         | 0.025                               |           |             |          |           |             |       |          |      |
| Toluene                    | ND         | 0.050                               |           |             |          |           |             |       |          |      |
|                            | ND         | 0.050                               |           |             |          |           |             |       |          |      |
| Ethylbenzene               | ND         | 0.050                               |           |             |          |           |             |       |          |      |
| Xylenes, Total             | ND         | 0.10                                |           |             |          |           |             |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.95       |                                     | 1.000     |             | 95.0     | 80        | 120         |       |          |      |
| Sample ID LCS-26117        | SampT      | ype: LC                             | S         | Tes         | tCode: E | PA Method | 8021B: Vola | tiles |          |      |
| Client ID: LCSS            | Batch      | n ID: 26                            | 117       | F           | RunNo: 3 | 5307      |             |       |          |      |
| Prep Date: 6/28/2016       | Analysis D | )ate: 6/                            | 29/2016   | S           | SeqNo: 1 | 092239    | Units: mg/k | (g    |          |      |
| Analyte                    | Result     | PQL                                 | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.96       | 0.025                               | 1.000     | 0           | 95.9     | 75.3      | 123         |       |          |      |
| Toluene                    | 0.97       | 0.050                               | 1.000     | 0           | 96.9     | 80        | 124         |       |          |      |
| Ethylbenzene               | 0.99       | 0.050                               | 1.000     | 0           | 99.4     | 82.8      | 121         |       |          |      |
| Yvlenes Total              | 3.0        | 0.10                                | 3,000     | 0           | 98.4     | 83.9      | 122         |       |          |      |
|                            | 0.00       | 0.10                                | 5.000     | 0           | 07.0     | 00.9      | 122         |       |          |      |
| Surr: 4-Bromonuorobenzene  | 0.98       |                                     | 1.000     |             | 97.9     | 80        | 120         |       |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

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| HALL Hall Envir<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY TEL: 505-<br>Website          | onmental Analysis Laborator<br>4901 Hawkins N<br>Albuquerque, NM 8710<br>345-3975 FAX: 505-345-410<br>:: www.hallenvironmental.com | <sup>E</sup><br>9 <b>Sam</b><br>7 | ple Log-In Ch       | eck List         |
|--|--|-----------------------------------|---------------------|------------------|
| Client Name: APEX AZTEC Work Order   | Number: 1606F25  |                                   | RcptNo:             | 1                |
| Received by/date:  | 28/10  |                                   |                     |                  |
| Logged By: Ashley Gallegos 6/28/2016 8:0   | 0:00 AM  | AJ                                |                     |                  |
| Completed By: Ashley Gallegos 6/28/2016 11:  | 51:34 AM   | AZ                                |                     |                  |
| Reviewed By: Curzs   | 16   |                                   |                     |                  |
| Chain of Custody   |  |                                   |                     |                  |
| 1. Custody seals intact on sample bottles?   | Yes  | No 🗌                              | Not Present         |                  |
| 2. Is Chain of Custody complete?   | Yes 🗹  | No 🗌                              | Not Present         |                  |
| 3. How was the sample delivered?   | Client   |                                   |                     |                  |
| Log In   |  |                                   | _                   |                  |
| 4. Was an attempt made to cool the samples?  | Yes 🗹  | No 🗌                              | NA 🗌                |                  |
| 5. Were all samples received at a temperature of >0° C to 6.0                            | D°C Yes 🗹  | No 🗆                              | NA                  |                  |
| 6. Sample(s) in proper container(s)?   | Yes 🗹  | No 🗌                              |                     |                  |
| 7. Sufficient sample volume for indicated test(s)?                                       | Yes 🖌  | No 🗌                              |                     |                  |
| 8. Are samples (except VOA and ONG) properly preserved?                                  | Yes 🗹  | No 🗌                              |                     |                  |
| 9. Was preservative added to bottles?  | Yes  | No 🗹                              | NA 🗆                |                  |
| 10.VOA vials have zero headspace?  | Yes 🗆  | No 🗆                              | No VOA Vials 🗹      |                  |
| 11. Were any sample containers received broken?  | Yes  | No 🗹                              | # of preserved      |                  |
| 12. Does paperwork match bottle labels?  | Yes 🗹  | No 🗆                              | for pH:             |                  |
| (Note discrepancies on chain of custody)   | Y  |                                   | (<2 or<br>Adjusted? | >12 unless noted |
| 13. Are mances correctly identified on Chain or Custody?                                 |  |                                   |                     |                  |
| 15. Were all holding times able to be met?<br>(If no notify gustomer for suthorization.) | Yes 🗹  |                                   | Checked by:         |                  |
| Special Handling (If applicable)   |  | _                                 |                     |                  |
| 16. Was client notified of all discrepancies with this order?                            | Yes 🗌  | No 🗌                              | NA 🗹                |                  |
| Person Notified:   | Date   |                                   |                     |                  |
| By Whom:   | Via: eMail Pho   | one 🗌 Fax                         | In Person           |                  |
| Client Instructions:   |  |                                   |                     |                  |
| 17. Additional remarks:  |  |                                   |                     |                  |
| 18. Cooler Information   | *  |                                   |                     |                  |
| Cooler No Temp °C Condition Seal Intact Sea  | No Seal Date S   | igned By                          |                     |                  |
| 1 1.8 Good Yes   |  |                                   |                     |                  |
|  |  |                                   |                     |                  |
| Page 1 of 1  |  |                                   |                     |                  |

1

| APEX     Laboratory: Hall Environmental     ANALYSIS       Office Location     Actess: Albaugurgue, NM     Recuested       Project Manager     Kontext:     Actess: Albaugurgue, NM       Project Manager     Kontext:     Actess: Albaugurgue, NM       Project Manager     Kontext:     Actess: Albaugurgue, NM       Project Manager     Project Name     Bempers Signature       Ranket Date     Time (Dignature)     McType of Containers       Project Name     Sempler Signature     Signature       Ranket Date     Time (Dignature)     McType of Containers       Project Name     Sempler Signature     Signature       Ranket Date     Time (Dignature)     McType of Containers       Tunot     MCP - 2     I     X X X       Signature     Signature     Signature)       Signature     Recuested Signature)     McX X       Signature     McSignature)     McX X       Signature     McSignature)     McX X       Signature     McSignature)     McX X       Minute Market Signature     McSignature)     McX X   |  |                               |                  |            |                         |   | CHAIN OF CUSTODY RECO           |
|--|--|-------------------------------|------------------|------------|-------------------------|---|---------------------------------|
| APEX     Laboratory:     Hall Environmanted<br>Hall Environmanted<br>Adress:     REQUESTED     Use for<br>them       Office Location     Arther public<br>Manager     Arther public   |  | 1                             |                  |            | ANALYSIS /              | 1111                                    | Lab use only                    |
| APEX       Address:       Addres:       Addres:       Addre  |  | Laboratory: Hall &            | multonne         | stal       | REQUESTED /             |   |                                 |
| Office Location     Aztect DIM       Office Location     Aztect DIM       Contact:     A: Free Andl       Project Manager     K-SUMMILIS       Portso:     Bargier Signature       Bargier's Signature     Bargier's Signature       Ranze Dezchilly     Bargier's Signature       Yor, No.     Project Name       Trunk K MD ILL'     Hydro       Yor, No.     Project Name       Signature     Signature       Yor, No.     Trunk K MD ILL'       Yor, No.     Project Name       Signature     Signature       Yor, No.     Trunk K MD ILL'       Yor, No.     Were - 2       Yor, Yor, No.     Were - 2 <td>APEX</td> <td>Address: Athura</td> <td>wave, no</td> <td>л</td> <td></td> <td>' / / / /</td> <td></td>  | APEX   | Address: Athura               | wave, no         | л          |                         | ' / / / /                               |                                 |
| Contact:       A:Enceanden         Project Manager       K5.MMMUS         Project Manager       K5.MMMUS         Project Manager       K5.MMMUS         Project Name       Sampler's Signature         Sampler's Name       Sampler's Signature         Top, No.       Project Name         Trunk M0 ju'' Hydro       NorType of Containers         Trunk M0 ju'' Hydro       NorType of Containers         Trunk M0 ju'' Hydro       NorType of Containers         Signature       Trunk M0 ju'' Hydro         Signature       NorType of Containers         Signature       NorTes:         Signature       Date:         Time:       Project Name         Signature       Date:         Signature       Date:         Nortes:       Signature       Date:         Signature       Date:       Time:         Signature       Date:       Time:         Signature       Date:       Time:         Signature       Date:       Time: </td <td>Office Location Azdecinsm</td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td>when received (C°):</td>   | Office Location Azdecinsm  |                               |                  |            | 8                       |   | when received (C°):             |
| Project Manager       K-SAVMUTUR/S       PO/SO #:       Point       Project Manager  |  | Contact: A.F.                 | e main           |            | 9                       |   |                                 |
| Project Manager       K-SAVMMULS       PO/SO #:       Image: Construct Signature       Image: Construct Signature         Ran LL Deschilly       Rempler's Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature         Yol, No.       Trunk K MO 14'' Hydro       Rempler's Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature         Yol, No.       Trunk K MO 14'' Hydro       Rempler's Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature         Yol, No.       Trunk K MO 14'' Hydro       Rempler's Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature         Signature       Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature       Rempler's Signature         Signature       Use Signature       Rempler's Signatu  |  | Phone:                        |                  |            | 0                       |   | Pageof                          |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | Project Manager KSUMMUS  | PO/SO #-                      |                  |            | 「ふ」で                    | ' / / / /                               |                                 |
| Ranze Dezchilly     Roman       Project Name     Trunk (MO) 14'' Hydro       Addity     Trunk (MO) 14'' Hydro       Addity     Trunk (MO) 14'' Hydro       Addity     Date       Time     Project Name       Trunk (MO) 14'' Hydro     NorType of Containers       Addity     Date       Time     Project Name       Trunk (MO) 14'' Hydro     NorType of Containers       S     G(g21)14       1140     WP - 2       S     1150       WP - 3     1       S     1200       WP - 3     1       S     1200       WP - 4     1       X X X     -0005       S     1200       WP - 4     1       X X X     -0005       S     1200       WP - 5     1       Y J20     WP - 5       WP - 5     1       Y J20     WP - 5       WP - 5     1       WF - 6     2005       WF - 7     2005       WF - 8     10056 Rush       Difference     2005 Rush<  | Sampler's Name   | Sampler's Signature           |                  |            |                         |   |                                 |
| Proj. No.       Project Name       NoTtype of Containers       NoTtype of Containers         Value       Trun k M0 Iu'' Hydro       Itab Sample (a)       Itab Sample (b)       Itab Sample (c)       Itab Sample (  | Rance Deechilly -  | Ropenhill                     | 1                |            | 173                     |   |                                 |
| Trunk M0 Ju <sup>11</sup> Hydro       Trunk M0 Ju <sup>11</sup> Hydro       Trunk M0 Ju <sup>11</sup> Hydro       Heritian Stample ID (Lab Use Only)         S       Image: Stample ID (Lab Use Only)       Stample ID (Lab Use Only)       Stample ID (Lab Use Only)         S       Image: Stample ID (Lab Use Only)       WP - 1       Image: Stample ID (Lab Use Only)         S       Image: Stample ID (Lab Use Only)       WP - 2       Image: Stample ID (Lab Use Only)         S       Image: Stample ID (Lab Use Only)       WP - 2       Image: Stample ID (Lab Use Only)         S       Image: Stample ID (Lab Use Only)       WP - 2       Image: Stample ID (Lab Use Only)         S       Image: Stample ID (Lab Use Only)       WP - 3       Image: Stample ID (Lab Use Only)         S       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4         S       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4         S       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4         S       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4         S       Image: Stample ID (WP - 5       Image: Stample ID (WP - 4       Image: Stample ID (WP - 4         S       Image: Stample ID (WP - 5       Image: Stample ID (WP - 4       Image   | Proj. No. Project Name   |                               | No/Type of Conta | iners      | ्रे री म                |   |                                 |
| Matrix       Date       Time       G       G       dentifying Marka of Sample(s)       E <the< th="">       E       <the< th=""> <the< th=""> <the< th="">       E</the<></the<></the<></the<>   | Trunk MO   | 16" Hydro                     |                  |            | 7941                    |   | /                               |
| S         Get 114         1140         WP-1         1         X         X         1         Image: Constraint of Constraints of Constrai  | Matrix Date Time C G<br>Matrix Date Time A r<br>Matrix Date Time D r | rks of Sample(s)              | VOA<br>11L       | Jar<br>P/O | 1 / / / /               |   | 1 ab Sample ID (I ab Lise Only) |
| S       1150       WP-2       1       X X       -003         S       1200       WP-3       1       X X       -003         S       1210       WP-4       1       X X       -005         S       1210       WP-4       1       X X       -005         S       1200       WP-4       1       X X       -005         S       1200       WP-5       1       NTE       -005         S       100% Rush       100% Rush       100% Rush       Date:       Time:         Signatureh <td>S Caladita Juno 1</td> <td></td> <td></td> <td>11</td> <td>1 2 1</td> <td>+ + + + -</td> <td>11. DIAFAT OD</td>   | S Caladita Juno 1  |                               |                  | 11         | 1 2 1                   | + + + + -                               | 11. DIAFAT OD                   |
| 2       1150       WP-2       1       X X Y       -003         5       120       WP-3       1       X X Y       -003         5       1210       WP-4       1       X X Y       -003         5       120       WP-5       1       X X Y       -005         6       120       WP-5       1       X X Y       -005         9       100% Rueh       100% Rueh       100% Rueh       -005       -005         13       15%       Date:       Time:       Cate:       Time:       NOTES:         14       15%       Jate       Time:       Cate:       Time:       Sint to Tom Long EPPO)         14       11/2       17/2       Pa   | S GENIG INGO WP  |                               |                  | 1          |                         | + + + + - + - + - + - + - + - + - + - + | TOULFUS O                       |
| 2       12.00       WP-3       1       X X Y       -0005         5       1210       WP-4       1       X X Y       -0005         5       120       WP-5       1       X X Y       -0005         5       120       WP-5       1       X X Y       -0005         5       120       WP-5       1       X X Y       -0005         6       120       WP-5       1       X X Y       -0005         120       WP-5       100% Rush       100% Rush       -0005         120       Date:       Time:       Belgelyed, by: (Signature)       Date:       Time:         120       MULUIU       MULUIU       154       MULUIU       Date:       Time:         200       Date:       Time:       Received by: (Signature)       Date:       Time:       Time:  | 5 1150 WP  | - 2                           |                  | 1          | XXX                     |   | -002                            |
| S     120     WP-9     1     X X X     -009       S     120     WP-5     1     X X     -005       N20     WP-5     1     X X     -005       Nem around time     Chormal     25% Rush     50% Rush     100% Rush       Jaginguished by (Signature)     Date:     Time:     Perceived by: (Signature)     Date:     Time:       Particular Life     100% Rush     100% Rush     Date:     Time:     Received by: (Signature)     Date:     Time:       Particular Life     110     100% Rush     Date:     Time:     Particular Life     NOTES:       Particular Life     110     110     100% Rush     Date:     Time:     NOTES:       Particular Life     110     110     110     110     110     110       Particular Life     110     110     110     110     110     110       Particular Life     110     120     110     120     110     110       Particular Life     110     120     110     120     110     110       Particular Life     100%     100%     100%     100%     100%     100%       Particular Life     100%     100%     100%     100%     100%     100%<  | 5 1200 W   | - 3                           |                  |            | XXX                     |   | . 005                           |
| Aum around time       Mormal       25% Rush       100% Rush       100% Rush         Aum around time       Mormal       25% Rush       100% Rush       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Beleved by: (Signature)       Date:       Time:         Hold Mark       Mark       100% Rush       Doto:       Time:       Beleved by: (Signature)       Date:       Time:         Hold Mark       Date:       Time:       Received by: (Signature)       Date:       Time:       NOTES:         Hold Mark       Mark       100% Stature)       Date:       Time:       Date:       Time:         Hold Mark       Mark       100% Stature)       Date:       Time:       Date:       Time:         Hold Mark       Mark       100% Stature)       Date:       Time:       Date:       Time:         Hold Mark       Mark       Mark       Signature)       Date:       Time:       Signature)       Date:       Time:         Hold Mark       Mark       WW - Westerweiter       Signature       Date:       Time:       Signature       O-Oil         Attrix       WW - Westerweiter       Signature       Date:       Signature       Date:       Signature </td <td>3 1210 WI</td> <td>p-9</td> <td></td> <td>1</td> <td>XXX</td> <td></td> <td>-009</td>   | 3 1210 WI  | p-9                           |                  | 1          | XXX                     |   | -009                            |
| Num around time     Normal     25% Rush     50% Rush     100% Rush       Taginquished by (Signature)     Date:     Time:     Date:     Time:       Additional Date:     Time:     Date:     Time:     Date:     Time:       Additional Date:     Time:     Pate:     Time:     Date:     Time:       Additional Date:     Time:     Pate:     Time:     Pate:     Time:       Additional Date:     Time:     Received by: (Signature)     Date:     Time:       Additional Date:     Time:     Received by: (Signature)     Date:     Time:       Additional Date:     Time:     Received by: (Signature)     Date:     Time:       Adartx     WW - Wastewater     W - Water     S. Soil     SD - Solid     L - Liquid     A - Air Bag     C - Charcosol tube     SL - sludge     0 - Oil  | 5 V 1220 WI  | -5                            |                  |            | XXX                     | +-+                                     | -005                            |
| Notes       Notes       Notes         Rum around time       Mormal       25% Rush       50% Rush       100% Rush         Balinquished by (Signature)       Date;       Time:       Program of the second by: (Signature)       Date:       Time:         Automatication       Date;       Time:       Program of the second by: (Signature)       Date:       Time:       NOTES:         Balinquished by (Signature)       Date;       Time:       Received by: (Signature)       Date:       Time:       NOTES:         Pathoushed by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Bill to Torn Long EPPOI         Automatication       Date:       Time:       Received by: (Signature)       Date:       Time:         Automatication       Date:       Time:       Received by:  |  |                               |                  |            |                         |   |                                 |
| Durn around time     Diversion     Diversion <t< td=""><td></td><td>ALEC</td><td></td><td></td><td></td><td></td><td></td></t<>  |  | ALEC                          |                  |            |                         |   |                                 |
| Rum around time       PNormal       25% Rush       50% Rush       100% Rush         Balinquished by (Signature)       Date:       Time:       Beleved by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Beleved by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Beleved by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Feceived by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Feceived by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Feceived by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:         Balinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:         Autrix  |  | 1007                          |                  |            |                         |   |                                 |
| Rum around time       PNormal       25% Rush       50% Rush       100% Rush         Bailinquished by (Signature)       Date:       Time:       Provide diversity       Date:       Time:       NOTES:         Bailinquished by (Signature)       Date:       Time:       Provide diversity       Date:       Time:       NOTES:         Bailinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       NOTES:         Bailinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Bill to Torn Lowg       Eppol         Automic United by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Bill to Torn Lowg       Eppol         Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:         /       Attrix       WW - Wastewater       W - Water       S - Solid       L - Liquid       A - Air Bag       C - Charcoal tube       SL - sludge       O - Oil   |  |                               |                  |            |                         |   |                                 |
| Rum around time       PNormal       25% Rush       50% Rush       100% Rush         Balinquished by (Signature)       Date:       Time:       Beleived by: (Signature)       Date:       Time:       NOTES:         Balinquished by (Signature)       Date:       Time:       Received D:: (Signature)       Date:       Time:       NOTES:         Balinquished by (Signature)       Date:       Time:       Received D:: (Signature)       Date:       Time:       NOTES:         Balinquished by (Signature)       Date:       Time:       Received D:: (Signature)       Date:       Time:       Bit It to Torn Lowng       Eppering         Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Bit It to Torn Lowng       Eppering         Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:         Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Time:         Attrix       WW - Westewater       W - Water       S - Soil       SD - Solid       L - Liquid       A - Air Bag       C - Charcoal tube       SL - sludge       O - Oil  |  |                               |                  |            |                         |   |                                 |
| Balinquished by (Signature)       Date:       Time:       Date:       Time:       NoTES:         August Height   | Turn around time Normal 25% Rush                                     | 50% Rush 🔲 100% Rush          |                  |            |                         |   |                                 |
| Retinguished, by (Signature)       Date:       Time:       Received D:: (Signature)       Date       Time:       Bit (T B T GNC LGVG)       C(M)         Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Bit (T B T GNC LGVG)       C(M)         Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Signature)       Date:       Time:         Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:       Time:         Attrix       WW - Westewater       W - Water       S - Soil       SD - Solid       L - Liquid       A - Air Bag       C - Charcoal tube       SL - sludge       O - Oil   | Belinquished by (Signature) Date:                                    | Time: Received by: (Signa     | ature)           | Date:      | IS40                    | R II have                               | EPON                            |
| (1////////////////////////////////////   | Relinguished, by (Signiture) Date:                                   | Time: Received by: (Signa     | ature)           | Date       | Time:                   | BILL TO LON                             | inung crm)                      |
| Relinquished by (Signature)     Date:     Time:     Received by: (Signature)     Date:     Time:       Watrix     WW - Wastewater     W - Water     S - Soil     SD - Solid     L - Liquid     A - Air Bag     C - Charcoal tube     SL - sludge     O - Oil   | Relinguished by (Signature)  | Time: Received by: (Shana     | ature)           | Date:      | Time:                   |   |                                 |
| Relinquished by (Signature)       Date:       Time:       Received by: (Signature)       Date:       Time:         Vlatrix       WW - Wastewater       W - Water       S - Soil       SD - Solid       L - Liquid       A - Air Bag       C - Charcoal tube       SL - sludge       O - Oil  |  | Y V                           |                  |            |                         |   |                                 |
| Vatrix WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil  | Relinquished by (Signature) Date:                                    | Time: Received by: (Signa     | ature)           | Date:      | Time:                   |   |                                 |
| and a state of the | Matrix WW - Wastewater W - Water                                     | S - Soil SD - Solid L - Liqui | d A - Air Bag    | C - Cha    | arcoal tube SL - sludge | O - Oil                                 |                                 |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 13, 2016 Kyle Summers APEX TITAN 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX

OrderNo.: 1607083

Dear Kyle Summers:

RE: MD16 Hydro 5

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/2/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1607083

Date Reported: 7/13/2016

#### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: DP-1

 Project:
 MD16 Hydro 5
 Collection Date: 7/1/2016 8:45:00 AM

 Lab ID:
 1607083-001
 Matrix: SOIL
 Received Date: 7/2/2016 10:15:00 AM

 Analyses
 Result
 POL
 Qual
 Units
 DF
 Date Analyzed

| Result  | PQL Qual  | Units  | DF   | Date Analyzed  | Batch   |
|---------|---|--|--|--|---|
|         |   |  |  | Analyst  | LGT   |
| ND      | 30  | mg/Kg  | 20   | 7/11/2016 9:52:16 PM   | 26315   |
| ORGANIC | S   |  |  | Analyst  | TOM   |
| ND      | 9.8   | mg/Kg  | 1  | 7/7/2016 2:21:40 PM  | 26260   |
| 85.4    | 70-130  | %Rec   | 1  | 7/7/2016 2:21:40 PM  | 26260   |
| E       |   |  |  | Analyst  | NSB   |
| ND      | 4.6   | mg/Kg  | 1  | 7/6/2016 1:28:52 PM  | 26229   |
| 99.3    | 80-120  | %Rec   | 1  | 7/6/2016 1:28:52 PM  | 26229   |
|         |   |  |  | Analyst  | NSB   |
| ND      | 0.023   | mg/Kg  | 1  | 7/6/2016 1:28:52 PM  | 26229   |
| ND      | 0.046   | mg/Kg  | 1  | 7/6/2016 1:28:52 PM  | 26229   |
| ND      | 0.046   | mg/Kg  | 1  | 7/6/2016 1:28:52 PM  | 26229   |
| ND      | 0.092   | mg/Kg  | 1  | 7/6/2016 1:28:52 PM  | 26229   |
| 95.8    | 80-120  | %Rec   | 1  | 7/6/2016 1:28:52 PM  | 26229   |
|         | Result<br>ND<br>ORGANIC<br>ND<br>85.4<br>99.3<br>ND<br>ND<br>ND<br>ND<br>ND<br>95.8 | Result         PQL         Qual           ND         30           ORGANICS         -           ND         9.8           85.4         70-130           ND         4.6           99.3         80-120           ND         0.023           ND         0.046           ND         0.046           ND         0.092           95.8         80-120 | Result         PQL         Qual         Units           ND         30         mg/Kg           ORGANICS         mg/Kg           ND         9.8         mg/Kg           85.4         70-130         %Rec           ND         4.6         mg/Kg           99.3         80-120         %Rec           ND         0.023         mg/Kg           ND         0.046         mg/Kg           ND         0.092         mg/Kg           ND         0.092         mg/Kg | Result         PQL         Qual         Units         DF           ND         30         mg/Kg         20           ORGANICS | Result         PQL         Qual         Units         DF         Date Analyzed           ND         30         mg/Kg         20         7/11/2016 9:52:16 PM         Analyst           ND         30         mg/Kg         20         7/11/2016 9:52:16 PM         Analyst           ORGANICS         Analyst         Analyst         Analyst         Analyst           ND         9.8         mg/Kg         1         7/7/2016 2:21:40 PM         Analyst           ND         9.8         mg/Kg         1         7/7/2016 2:21:40 PM         Analyst           ND         9.8         mg/Kg         1         7/6/2016 1:28:52 PM         Analyst           ND         4.6         mg/Kg         1         7/6/2016 1:28:52 PM         Analyst           ND         0.023         mg/Kg         1         7/6/2016 1:28:52 PM         Analyst           ND         0.046         mg/Kg         1         7/6/2016 1:28:52 PM         Analyst           ND         0.046         mg/Kg         1         7/6/2016 1:28:52 PM         Analyst           ND         0.092         mg/Kg         1         7/6/2016 1:28:52 PM         Analyst           ND         0.092         mg/Kg         1< |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method  | Blank           |
|-------------|----|---|----|--|-----------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range             |                 |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits | Page 1 of 8     |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                     | rage 1018       |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                  |                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of lim | it as specified |
|             |    |   |    |  |                 |

Analytical Report Lab Order 1607083

7/7/2016 2:43:48 PM

7/7/2016 2:43:48 PM

7/6/2016 5:01:06 PM

1

1

1

1

1

1

1

1

1

26260

26260

26229

26229

26229

26229

26229

26229

26229

Analyst: NSB

Analyst: NSB

Date Reported: 7/13/2016

#### Hall Environmental Analysis Laboratory, Inc.

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

#### **CLIENT: APEX TITAN** Client Sample ID: DP-2 **Project:** MD16 Hydro 5 Collection Date: 7/1/2016 8:50:00 AM 1607083-002 Received Date: 7/2/2016 10:15:00 AM Lab ID: Matrix: SOIL Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch EPA METHOD 300.0: ANIONS Analyst: LGT Chloride ND 30 ma/Ka 7/11/2016 10:04:40 PM 26315 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM

9.6

4.7

70-130

80-120

0.023

0.047

0.047

0.093

80-120

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

ND

87.6

ND

101

ND

ND

ND

ND

96.1

| and the second se |    |   |    |  |                 |
|---|----|---|----|--|-----------------|
| Qualifiers:   | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method    | Blank           |
|   | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |                 |
|   | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 2 of 8     |
|   | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | 1 age 2 01 0    |
|   | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |                 |
|   | S  | % Recovery outside of range due to dilution or matrix |    | Sample container temperature is out of limit | it as specified |
|   |    |   |    |  |                 |

Analytical Report Lab Order 1607083

#### Date Reported: 7/13/2016

-

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX TITAN Client Sample ID: DP-3** Project: MD16 Hydro 5 Collection Date: 7/1/2016 9:00:00 AM Lab ID: 1607083-003 Received Date: 7/2/2016 10:15:00 AM Matrix: SOIL ..... - 1-I II-it n . DOI 0 -.

| Analyses                       | Result       | PQL Qu | al Units | DF | Date Analyzed         | Batch |
|--------------------------------|--------------|--------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS       |              |        |          |    | Analyst               | LGT   |
| Chloride                       | ND           | 30     | mg/Kg    | 20 | 7/11/2016 10:17:05 PM | 26315 |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS |        |          |    | Analyst               | TOM   |
| Diesel Range Organics (DRO)    | ND           | 9.9    | mg/Kg    | 1  | 7/7/2016 3:05:41 PM   | 26260 |
| Surr: DNOP                     | 93.6         | 70-130 | %Rec     | 1  | 7/7/2016 3:05:41 PM   | 26260 |
| EPA METHOD 8015D: GASOLINE RA  | NGE          |        |          |    | Analyst               | NSB   |
| Gasoline Range Organics (GRO)  | ND           | 4.9    | mg/Kg    | 1  | 7/6/2016 5:24:40 PM   | 26229 |
| Surr: BFB                      | 99.3         | 80-120 | %Rec     | 1  | 7/6/2016 5:24:40 PM   | 26229 |
| EPA METHOD 8021B: VOLATILES    |              |        |          |    | Analyst               | NSB   |
| Benzene                        | ND           | 0.024  | mg/Kg    | 1  | 7/6/2016 5:24:40 PM   | 26229 |
| Toluene                        | ND           | 0.049  | mg/Kg    | 1  | 7/6/2016 5:24:40 PM   | 26229 |
| Ethylbenzene                   | ND           | 0.049  | mg/Kg    | 1  | 7/6/2016 5:24:40 PM   | 26229 |
| Xylenes, Total                 | ND           | 0.097  | mg/Kg    | 1  | 7/6/2016 5:24:40 PM   | 26229 |
| Surr: 4-Bromofluorobenzene     | 94.3         | 80-120 | %Rec     | 1  | 7/6/2016 5:24:40 PM   | 26229 |
|                                |              |        |          |    |                       |       |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 3 of 8    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
| S 9         |    | % Recovery outside of range due to dilution or matrix |    | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

**Analytical Report** 

#### Lab Order 1607083

Date Reported: 7/13/2016

20 7/11/2016 10:54:19 PM 26315

7/7/2016 3:27:48 PM

7/7/2016 3:27:48 PM

7/6/2016 5:48:15 PM

1

1

1

1

1

1

1

1

1

Analyst: TOM

Analyst: NSB

Analyst: NSB

26260

26260

26229

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26229

### Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

**EPA METHOD 8015D: GASOLINE RANGE** 

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

| Result                                  | PQL  | Qual      | Units    | DF Date Analyzed             | Batch  |  |
|---|------|-----------|----------|------------------------------|--|--|
|   |      |           |          |                              |  |  |
| Matrix:                                 | SOIL |           | Received | d Date: 7/2/2016 10:15:00 AM |  |  |
| <b>Collection Date:</b> 7/1/2016 9:10:0 |      |           |          |                              |  |  |
| CLIENT: APEX TITAN Client Sample        |      |           |          |                              |  |  |
|   |      | M. d. SOU | C        | Client Sam<br>Collection     | Client Sample ID: DP-4<br>Collection Date: 7/1/2016 9:10:00 AM |  |

30

10

4.7

70-130

80-120

0.024

0.047

0.047

0.094

80-120

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

ND

ND

88.1

ND

101

ND

ND

ND

ND

96.3

|   | Refer to the | QC Summary | report and | sample | login c | hecklis | t for | flagged | QC | data and | preservation | information |
|---|--------------|------------|------------|--------|---------|---------|-------|---------|----|----------|--------------|-------------|
| _ |              |            |            |        |         |         |       |         |    |          |              |             |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.   | В  | Analyte detected in the associated Method Blank           |
|-------------|----|--|----|---|
|             | D  | ample Diluted Due to Matrix  |    | Value above quantitation range                            |
|             | H  | Holding times for preparation or analysis exceeded                                       | J  | Analyte detected below quantitation limits Page 4 of 8    |
|             | ND | Not Detected at the Reporting Limit  | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits   | RL | Reporting Detection Limit                                 |
|             | S  | Recovery outside of range due to dilution or matrix W Sample container temperature is ou |    | Sample container temperature is out of limit as specified |

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WO#:

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13-Jul-16

Hall Environmental Analysis Laboratory, Inc.

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15.00

Client: APEX TITAN

Chloride

| Project:   | MD1       | 6 Hydro 5                |                           |                |          |      |
|------------|-----------|--------------------------|---------------------------|----------------|----------|------|
| Sample ID  | MB-26315  | SampType: MBLK           | TestCode: EPA Method      | 300.0: Anions  |          |      |
| Client ID: | PBS       | Batch ID: 26315          | RunNo: 35578              |                |          |      |
| Prep Date: | 7/8/2016  | Analysis Date: 7/11/2016 | SeqNo: 1101772            | Units: mg/Kg   |          |      |
| Analyte    |           | Result PQL SPK value     | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit | Qual |
| Chloride   |           | ND 1.5                   |                           |                |          |      |
| Sample ID  | LCS-26315 | SampType: LCS            | TestCode: EPA Method      | 300.0: Anions  |          |      |
| Client ID: | LCSS      | Batch ID: 26315          | RunNo: 35578              |                |          |      |
| Prep Date: | 7/8/2016  | Analysis Date: 7/11/2016 | SeqNo: 1101773            | Units: mg/Kg   |          |      |
| Analyte    |           | Result PQL SPK value     | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit | Qual |

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94.2

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Client: Project:

-

-

#### APEX TITAN MD16 Hydro 5

| Sample ID MB-26260   | SampType: ME   | SLK   | Tes   | Code: EF   | ode: EPA Method 8015M/D: Diesel Range Organics  |   |                         |            |      |  |
|--|--|---|---|--|---|---|-------------------------|------------|------|--|
| Prep Date: 7/6/2016  | Analysis Date: 7/  | SeqNo: 1098295                                  |   |  | Units: mg/Kg                                    |   |                         |            |      |  |
| Analyte  | Result PQL   | SPK value                                       | SPK Ref Val   | %REC   | LowLimit  | HighLimit                                       | %RPD                    | RPDLimit   | Qual |  |
| Diesel Range Organics (DRO)<br>Surr: DNOP  | ND 10<br>9.1   | 10.00   |   | 91.4   | 70  | 130   |                         |            |      |  |
|  |  |   | TestCode: EPA Method 8015M/D: Diesel Range Organics |  |   |   |                         |            |      |  |
| Sample ID LCS-26260  | SampType: LC   | S   | Test  | Code: EF   | PA Method                                       | 8015M/D: Die                                    | esel Range              | organics   |      |  |
| Client ID: LCS-26260   | SampType: LC<br>Batch ID: 262  | S<br>260  | Tes<br>R  | Code: EF   | PA Method<br>5477                               | 8015M/D: Die                                    | esel Range              | e Organics |      |  |
| Client ID: LCSS<br>Prep Date: 7/6/2016   | SampType: LC<br>Batch ID: 262<br>Analysis Date: 7/7                        | S<br>260<br>7/2016                              | Tesi<br>R<br>S                                      | Code: EF<br>unNo: 39<br>eqNo: 10                   | PA Method<br>5477<br>098315                     | 8015M/D: Die<br>Units: mg/K                     | esel Range<br>g         | e Organics |      |  |
| Client ID: LCSS<br>Prep Date: 7/6/2016<br>Analyte  | SampType: LC<br>Batch ID: 262<br>Analysis Date: 77<br>Result PQL           | S<br>260<br>7/2016<br>SPK value                 | Test<br>R<br>S<br>SPK Ref Val                       | Code: EF<br>anNo: 34<br>seqNo: 10<br>%REC          | PA Method<br>5477<br>098315<br>LowLimit         | 8015M/D: Die<br>Units: mg/K<br>HighLimit        | ssel Range<br>g<br>%RPD | • Organics | Qual |  |
| Client ID: LCS-26260<br>Client ID: LCSS<br>Prep Date: 7/6/2016<br>Analyte<br>Diesel Range Organics (DRO) | SampType: LC<br>Batch ID: 262<br>Analysis Date: 7/2<br>Result PQL<br>49 10 | <b>S</b><br>260<br>7/2016<br>SPK value<br>50.00 | Test<br>R<br>SPK Ref Val<br>0                       | Code: EF<br>cunNo: 38<br>ceqNo: 10<br>%REC<br>98.6 | PA Method<br>5477<br>098315<br>LowLimit<br>62.6 | 8015M/D: Die<br>Units: mg/K<br>HighLimit<br>124 | ssel Rango<br>g<br>%RPD | e Organics | Qual |  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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1607083

WO#:

13-Jul-16

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: APEX TITAN

Project: MD16 Hydro 5

| Sample ID MB-26229  | SampType: MBLK                               |   |  | Tes                               | tCode: E   | xde: EPA Method 8015D: Gasoline Range         |   |                          |               |      |  |
|---|--|---|--|-----------------------------------|--|---|---|--------------------------|---------------|------|--|
| Client ID: PBS  | Batch ID: 26229                              |   |  | RunNo: 35443                      |  |   |   |                          |               |      |  |
| Prep Date: 7/5/2016   | Analysis Date: 7/6/2016                      |   |  | S                                 | SeqNo: 1   | 097615  | ٢g  |                          |               |      |  |
| Analyte   | Result                                       | PQL   | SPK value                                | SPK Ref Val                       | %REC   | LowLimit                                      | HighLimit   | %RPD                     | RPDLimit      | Qual |  |
| Gasoline Range Organics (GRO)   | ND   | 5.0   |  |                                   |  | _   |   |                          |               |      |  |
| Surr: BFB   | 960  |   | 1000                                     |                                   | 95.5   | 80  | 120   |                          |               |      |  |
|   |  |   | SampType: LCS                            |                                   |  |   | the second se |                          |               |      |  |
| Sample ID LCS-26229   | SampT  | ype: LC                                       | S  | Tes                               | tCode: El  | PA Method                                     | 8015D: Gaso   | line Rang                | 9             |      |  |
| Sample ID LCS-26229<br>Client ID: LCSS  | SampT<br>Batch                               | ype: LC                                       | S<br>229                                 | Tes                               | tCode: El<br>RunNo: 3                            | PA Method<br>5443                             | 8015D: Gaso   | line Rang                | 0             |      |  |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016   | SampT<br>Batch<br>Analysis D                 | ype: LC<br>1D: 26<br>ate: 7/                  | S<br>229<br>6/2016                       | Tes<br>R<br>S                     | tCode: El<br>RunNo: 3<br>SeqNo: 1                | PA Method<br>5443<br>097616                   | 8015D: Gaso<br>Units: mg/M  | oline Rang               | 0             |      |  |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016<br>Analyte                                  | SampT<br>Batch<br>Analysis D<br>Result       | ype: LC<br>1D: 26<br>ate: 7/<br>PQL           | S<br>229<br>6/2016<br>SPK value          | Tesi<br>R<br>S<br>SPK Ref Val     | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC        | PA Method<br>5443<br>097616<br>LowLimit       | 8015D: Gaso<br>Units: mg/k<br>HighLimit   | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |  |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016<br>Analyte<br>Gasoline Range Organics (GRO) | SampT<br>Batch<br>Analysis D<br>Result<br>26 | ype: LC<br>1 ID: 26:<br>ate: 7/<br>PQL<br>5.0 | S<br>229<br>6/2016<br>SPK value<br>25.00 | Tes<br>R<br>S<br>SPK Ref Val<br>0 | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>105 | PA Method<br>5443<br>097616<br>LowLimit<br>80 | 8015D: Gaso<br>Units: mg/M<br>HighLimit<br>120  | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |  |

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1607083

13-Jul-16

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| QC | SUI | MM | ARY | F | <b>E</b> | PO | R | Т |  |  |
|----|-----|----|-----|---|----------|----|---|---|--|--|
|    |     |    |     |   | 0        |    |   |   |  |  |

WO#: 1607083

13-Jul-16

| Hall Environm | ental Ana | lysis La | borato | ry, Inc. |
|---------------|-----------|----------|--------|----------|
|---------------|-----------|----------|--------|----------|

Client: Project: APEX TITAN MD16 Hydro 5

| Sample ID MB-26229   | Samp  | ype: ME   | BLK   | Tes   | Code: El  | PA Method   | 8021B: Vola  | tiles               |          |      |
|--|---|---|---|---|---|---|--|---------------------|----------|------|
| Client ID: PBS   | Batc  | h ID: 26  | 229   | F   | unNo: 3   |   |  |                     |          |      |
| Prep Date: 7/5/2016  | Analysis D  | Date: 7/  | 6/2016  | S   | eqNo: 1   | 097633  | Units: mg/M  | (g                  |          |      |
| Analyte  | Result  | PQL   | SPK value   | SPK Ref Val   | %REC  | LowLimit  | HighLimit  | %RPD                | RPDLimit | Qual |
| Benzene  | ND  | 0.025   |   |   |   |   |  |                     |          |      |
| Toluene  | ND  | 0.050   |   |   |   |   |  |                     |          |      |
| Ethylbenzene   | ND  | 0.050   |   |   |   |   |  |                     |          |      |
| Xylenes, Total   | ND  | 0.10  |   |   |   |   |  |                     |          |      |
| Surr: 4-Bromofluorobenzene   | 0.93  |   | 1.000   |   | 92.8  | 80  | 120  |                     |          |      |
|  |   |   |   |   |   |   |  |                     |          |      |
| Sample ID LCS-26229  | SampT   | ype: LC   | S   | Tes   | Code: El  | PA Method   | 8021B: Volat   | tiles               |          |      |
| Sample ID LCS-26229<br>Client ID: LCSS   | Samp1<br>Batcl  | ype: LC   | S<br>229  | Tes   | Code: El  | PA Method<br>5443   | 8021B: Vola  | tiles               |          |      |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016  | Samp1<br>Batcl<br>Analysis D  | Type: LC<br>h ID: 262<br>Date: 7/   | S<br>229<br>6/2016  | Tes<br>F<br>S   | Code: El<br>tunNo: 3<br>ieqNo: 1  | PA Method<br>5443<br>097635   | 8021B: Volat   | tiles               |          |      |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016<br>Analyte   | Samp1<br>Batcl<br>Analysis D<br>Result                                | Type: LC<br>h ID: 262<br>Date: 7/<br>PQL                                    | <b>S</b><br>229<br>6/2016<br>SPK value                              | Tes<br>R<br>SPK Ref Val                               | Code: El<br>cunNo: 3<br>ceqNo: 1<br>%REC                                | PA Method<br>5443<br>097635<br>LowLimit                               | 8021B: Volat<br>Units: mg/K<br>HighLimit                             | tiles<br>(g<br>%RPD | RPDLimit | Qual |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016<br>Analyte<br>Benzene  | Samp1<br>Batcl<br>Analysis D<br>Result<br>0.98                        | Type: LC<br>h ID: 26<br>Date: 7/<br>PQL<br>0.025                            | S<br>229<br>6/2016<br>SPK value<br>1.000                            | Tes<br>R<br>S<br>SPK Ref Val<br>0                     | Code: El<br>RunNo: 3<br>GeqNo: 1<br><u>%REC</u><br>97.8                 | PA Method<br>5443<br>097635<br>LowLimit<br>75.3                       | 8021B: Volat<br>Units: mg/K<br>HighLimit<br>123                      | tiles<br>(g<br>%RPD | RPDLimit | Qual |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016<br>Analyte<br>Benzene<br>Toluene                                   | Samp1<br>Batcl<br>Analysis D<br>Result<br>0.98<br>0.97                | Type: LC<br>h ID: 26;<br>Date: 7/<br>PQL<br>0.025<br>0.050                  | S<br>229<br>6/2016<br>SPK value<br>1.000<br>1.000                   | Tes<br>F<br>S<br>SPK Ref Val<br>0<br>0                | Code: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>97.8<br>96.9                | PA Method<br>5443<br>097635<br>LowLimit<br>75.3<br>80                 | 8021B: Volat<br>Units: mg/K<br>HighLimit<br>123<br>124               | tiles<br>(g<br>%RPD | RPDLimit | Qual |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene                   | SampT<br>Batcl<br>Analysis D<br>Result<br>0.98<br>0.97<br>0.99        | Type: LC<br>h ID: 262<br>Date: 7/<br>PQL<br>0.025<br>0.050<br>0.050         | <b>S</b><br>229<br>6/2016<br>SPK value<br>1.000<br>1.000<br>1.000   | Tes<br>F<br>S<br>SPK Ref Val<br>0<br>0<br>0           | Code: El<br>anNo: 3<br>eqNo: 1<br>%REC<br>97.8<br>96.9<br>99.4          | PA Method<br>5443<br>097635<br>LowLimit<br>75.3<br>80<br>82.8         | 8021B: Volat<br>Units: mg/K<br>HighLimit<br>123<br>124<br>121        | tiles<br>(g<br>%RPD | RPDLimit | Qual |
| Sample ID LCS-26229<br>Client ID: LCSS<br>Prep Date: 7/5/2016<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes, Total | SampT<br>Batcl<br>Analysis D<br>Result<br>0.98<br>0.97<br>0.99<br>3.0 | Type: LC<br>h ID: 26:<br>Date: 7/<br>PQL<br>0.025<br>0.050<br>0.050<br>0.10 | S<br>229<br>6/2016<br>SPK value<br>1.000<br>1.000<br>1.000<br>3.000 | Tes<br>F<br>S<br>SPK Ref Val<br>0<br>0<br>0<br>0<br>0 | Code: El<br>anNo: 3<br>GeqNo: 1<br>%REC<br>97.8<br>96.9<br>99.4<br>99.2 | PA Method<br>5443<br>097635<br>LowLimit<br>75.3<br>80<br>82.8<br>83.9 | 8021B: Volat<br>Units: mg/K<br>HighLimit<br>123<br>124<br>121<br>122 | tiles<br>(g<br>%RPD | RPDLimit | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
  - value above qualititation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 8
| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | Hall Environmental<br>Alb<br>TEL: 505-345-397:<br>Website: www.ho | l Analysi<br>4901<br>suquerqu<br>5 FAX: 5<br>allenviro | s Laboral<br>Hawkins<br>e, NM 87<br>05-345-4<br>nmental.c | NE<br>109 <b>Sam</b><br>107              | ple Log-In C                     | h <b>eck</b> List   |
|---|---|--|---|--|----------------------------------|---------------------|
| Client Name: APEX AZTEC   | Work Order Number   | : 1607   | 83  |  | RcptNo:                          | 1                   |
| Received by/date: LM  | 07/02/16  |  |   |  |                                  | .                   |
| Logged By: Joe Archuleta  | 7/2/2016 10:15:00 AM  | ŧ  |   | JEar.                                    |                                  | i                   |
| Completed By: Joe Archuleta<br>Reviewed By: ATS   | 7/5/2016 8:51:58 AM<br>71516                                      |  |   | Jear                                     |                                  |                     |
| Chain of Custody  |   |  |   |  |                                  |                     |
| 1. Custody seals intact on sample bottles?  |   | Yes  |   | No 🗌                                     | Not Present                      |                     |
| 2. Is Chain of Custody complete?  |   | Yes  |   | No 🗌                                     | Not Present                      |                     |
| 3. How was the sample delivered?  |   | Cour   | ier   |  |                                  |                     |
| Log In  |   |  |   |  |                                  |                     |
| 4. Was an attempt made to cool the sample   | es?   | Yes  |   | No 🗌                                     | NA 🗆                             |                     |
| 5. Were all samples received at a temperat  | ure of >0° C to 6.0°C   | Yes  |   | No 🗆                                     |                                  |                     |
| 6. Sample(s) in proper container(s)?  |   | Yes  |   | No 🗆                                     |                                  |                     |
| 7. Sufficient sample volume for indicated te  | st(s)?  | Yes  |   | No 🗌                                     |                                  |                     |
| 8. Are samples (except VOA and ONG) pro   | perly preserved?  | Yes  |   | No 🗌                                     |                                  |                     |
| 9. Was preservative added to bottles?   |   | Yes  |   | No 🛃                                     | NA 🗋                             |                     |
| 10.VOA vials have zero headspace?   |   | Yes  |   | No 🗆                                     | No VOA Vials 🛃                   |                     |
| 11. Were any sample containers received be  | roken?  | Yes  |   | No 🛃                                     | # of preserved                   |                     |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       | 1   | Yes  |   | No 🗍                                     | for pH:<br>(<2 c                 | or >12 unless noted |
| 13. Are matrices correctly identified on Chair  | of Custody?   | Yes  |   | No 🗌                                     | Adjusted?                        |                     |
| 14. Is it clear what analyses were requested  | ?   | Yes  |   | No 🗌                                     |                                  |                     |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) |   | Yes  |   | No 🗌                                     | Checked by:                      |                     |
| Special Handling (if applicable)  |   |  | _   |  | _                                |                     |
| 16. Was client notified of all discrepancies w  | ith this order?   | Yes  |   | No L.J                                   | NA 🛃                             |                     |
| Person Notified:  | Date  | MARIE-E BOAM   | un creation arcoadad                                      | ALALAN AND ALALAN ALAN ALAN ALAN         |                                  |                     |
| By Whom:  | Via:  | eMa  | ait 🗌 F   | hone 🗌 Fax                               | In Person                        |                     |
| Regarding:  |   | -  |   | na ana ang ang ang ang ang ang ang ang a | Provinces Departments of MicaPer |                     |
| Client Instructions:  |   |  | ,   |  |                                  |                     |
| 17. Audulonai remarks:  |   |  |   |  |                                  |                     |
| 18. Cooler Information  | Seel Intert   Seel No. 1  | Seel D   | ata I   | Signed By                                |                                  |                     |
| Cooler Ito Temp C Condition   | Oddi madi Oddi NO   | Sear Da  | 10  | oigned by                                |                                  |                     |
| 1 2.3 Good  | Yes   |  |   |  |                                  |                     |

| 2       | A           |             |       |        |                 | Laboratory      | -       | Hall     |        | ·        |        |      |     |    | LYS | IS |      | /   | /   | / /          | T | 1   | 1     | Lab use of Due Date | only<br>:    |
|---------|-------------|-------------|-------|--------|-----------------|-----------------|---------|----------|--------|----------|--------|------|-----|----|-----|----|------|-----|-----|--------------|---|-----|-------|---------------------|--------------|
| A       | PEX         |             |       |        |                 | Address:        | Ai      | 30       | 1      | 1. M     |        |      | _   |    |     |    | 1    | /   | / / | /            | / | / / | //    |                     |              |
| Offic   |             | Az          | ete   | C      | Non             |                 | 7.11    |          |        |          |        |      |     |    |     |    | 1    | / / | /   | /            | / | 11  | /     | when recei          | ved (C*): 2  |
| Cinc    | 5 Loodio    |             |       |        |                 | Contact:        | A       | FI.      | u,     | sen      |        |      |     |    |     | 1  | 00   | /   | /   | /            | / | / / | /     | 1 2                 | 3 4 5        |
|         |             |             |       |        |                 | Phone:          |         |          |        |          |        |      |     |    | 1   |    | 6    | /   | 1   | / /          | / |     | /     | Page                | of 1         |
| Proje   | ct Manag    | er K        | San   | n      | 45              | PO/SO #: _      |         |          |        |          |        |      |     |    | 2   | 1  | J    | / / | / / | /            | / | / / | 1     |                     |              |
| Sampl   | er's Name   |             | -     |        |                 | Sampler's Sign  | ature   |          |        |          |        |      |     | 1  | ч   | 00 | 10   | /   | /   | /            | / | / / |       |                     |              |
| Ch      | od D        | Apont       |       |        |                 | at the          | M       | -        |        |          |        |      |     |    | X   | V  | X    | /   | /   | / /          |   | / / |       |                     |              |
| Proj. N | lo.         | 171         | Proje | oct Na | ame             | #1              |         |          | No/T   | ype of C | ontair | ners |     | 1  | 4/3 |    | ò    | /   | 11  | / /          | / | /   |       |                     |              |
| 1250    | 546112      | 11          | C     | G G    | 6 rught         | 0 45            | t f     | - 5      | •      | (8.4)    | 0      | 00   | 0   | 5  | 1/2 | 14 | / /  | / / | /   | /            | / | /   |       |                     |              |
| Matrix  | Date        | Time        | m P   | ab     | Identifying Mar | ks of Sample(s) | Star    | Dept     | Ş      | ₹¥       | SSIE   | Glas | PK  |    | 1   | 1  | //   | /   | /   | /            | / | /   | Lab S | Sample ID (La       | ib Use Only) |
| 5       | 7,116       | 8:45        |       |        | PP-1            |                 |         |          |        |          |        | l    |     | 1  | 1   | Π  |      |     |     |              |   | 160 | 108   | 3 -                 | 001          |
| S       | 7/1/16      | 8:50        |       |        | DA-2            |                 |         |          |        |          |        | 1    |     |    |     | Π  |      |     |     |              |   |     |       |                     | 002          |
| S       | 71/16       | 9:00        |       |        | DA-3            |                 |         |          |        |          |        | 1    |     | Π  | 1   |    |      |     |     |              |   |     |       |                     | -003         |
| S       | 7,116       | 9:10        |       |        | DP-4            |                 |         |          |        |          |        | 1    |     |    |     |    |      |     |     |              |   |     |       |                     | -004         |
|         |             |             |       |        |                 |                 |         |          |        |          |        |      |     |    |     |    |      |     |     |              |   |     |       |                     |              |
|         |             |             |       |        |                 |                 |         |          |        |          |        |      |     | Π  |     |    |      |     |     |              |   |     |       |                     |              |
|         |             |             |       |        |                 |                 |         |          |        |          |        |      |     |    |     |    |      |     |     |              |   |     |       |                     |              |
| -       |             |             |       |        |                 |                 | -       |          |        |          |        |      |     |    | +   | 1  | +    | +   | -   | -            |   |     |       |                     |              |
| -       |             |             |       |        |                 |                 |         |          |        |          |        |      |     |    | -   |    |      | +   | 1   | $\mathbf{T}$ |   |     |       |                     |              |
|         |             |             | -     |        |                 |                 |         | -        | -      |          |        |      |     |    | -   |    |      |     | +   |              |   |     |       |                     |              |
| lurn a  | round time  | 2 Nor       | mal   |        | 25% Rush        | ) 50% Rush C    | 100%    | Rush     |        | 1        | -      |      |     |    | -   |    |      | _   |     | _            |   |     |       |                     |              |
| Reling  | uished by ( | Signature)  |       |        | Date:           | Time: Receiv    | ved by: | (Signa   | ture)  | te       | -      | Date | 16  |    | me: | N  | OTES | :   | ,   | _            |   | ,   |       |                     |              |
| Reliac  | uished by ( | Signature)  |       | -"     | Date:           | Time: Recei     | ved by  | Signa    | iture) |          | Ť      | Date | 1.1 | TI | me: |    | B    | 1   | to  | 10           | m | Lon | g     | -                   |              |
| Balloo  | mished by   | (Signature) |       | -      | 111 (C 1.6)     | Time: Becel     | VED     | : (Signa | ture)  |          | 07     | Date | K   | 10 | me: | -  |      |     |     |              |   |     |       |                     |              |
|         |             | o.g. acaro) |       |        |                 |                 |         |          |        |          |        |      |     |    |     |    |      |     |     |              |   |     |       |                     |              |
| Relinc  | uished by ( | Signature)  |       | T      | Date:           | Time: Receip    | ved by  | : (Signa | ature) |          | T      | Date | : 1 | Ti | me: |    |      |     |     |              |   |     |       |                     |              |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec,

ico 87410 · Office: 505-334-5200 · Fax: 505-334-5204



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 18, 2016

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

RE: Trunk MD 16" Hydro

OrderNo.: 1607307

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/6/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

# Lab Order 1607307

#### Date Reported: 7/18/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX TITAN** Client Sample ID: XP-1 **Project:** Trunk MD 16" Hydro Collection Date: 7/5/2016 2:30:00 PM 1607307-001 Lab ID: Matrix: SOIL Received Date: 7/6/2016 7:35:00 AM . DOI ~ \*\* \*\*

| Result   | PQL Qual   | Units  | DF  | Date Analyzed  | Batch  |
|----------|--|--|---|--|--|
|          |  |  |   | Analyst  | LGT  |
| ND       | 30   | mg/Kg  | 20  | 7/11/2016 3:52:20 PM   | 26328  |
| ORGANICS | 6  |  |   | Analyst:   | TOM  |
| 25       | 9.3  | mg/Kg  | 1   | 7/11/2016 1:06:02 PM   | 26309  |
| 100      | 70-130   | %Rec   | 1   | 7/11/2016 1:06:02 PM   | 26309  |
| E        |  |  |   | Analyst:   | NSB  |
| ND       | 4.8  | mg/Kg  | 1   | 7/8/2016 8:46:15 PM  | 26286  |
| 99.8     | 80-120   | %Rec   | 1   | 7/8/2016 8:46:15 PM  | 26286  |
|          |  |  |   | Analyst:   | NSB  |
| ND       | 0.024  | mg/Kg  | 1   | 7/8/2016 8:46:15 PM  | 26286  |
| ND       | 0.048  | mg/Kg  | 1   | 7/8/2016 8:46:15 PM  | 26286  |
| ND       | 0.048  | mg/Kg  | 1   | 7/8/2016 8:46:15 PM  | 26286  |
| ND       | 0.096  | mg/Kg  | 1   | 7/8/2016 8:46:15 PM  | 26286  |
| 97.4     | 80-120   | %Rec   | 1   | 7/8/2016 8:46:15 PM  | 26286  |
|          | Result<br>ND<br>ORGANICS<br>25<br>100<br>25<br>100<br>99.8<br>ND<br>99.8<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>97.4 | Result         PQL         Qual           ND         30           ORGANICS         -           25         9.3           100         70-130           100         70-130           ND         4.8           99.8         80-120           ND         0.024           ND         0.048           ND         0.048           ND         0.096           97.4         80-120 | Result         PQL         Qual         Units           ND         30         mg/Kg           ORGANICS         mg/Kg           25         9.3         mg/Kg           100         70-130         %Rec           100         70-130         %Rec           ND         4.8         mg/Kg           99.8         80-120         %Rec           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.096         mg/Kg           ND         0.096         mg/Kg | Result         PQL         Qual         Units         DF           ND         30         mg/Kg         20           ORGANICS         25         9.3         mg/Kg         1           100         70-130         %Rec         1           100         70-130         %Rec         1           99.8         80-120         %Rec         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.096         mg/Kg         1           97.4         80-120         %Rec         1 | Result         PQL         Qual         Units         DF         Date Analyzed           ND         30         mg/Kg         20         7/11/2016 3:52:20 PM         Analyst:           ND         30         mg/Kg         20         7/11/2016 3:52:20 PM         Analyst:           ORGANICS         Analyst:         Analyst:         Analyst:           25         9.3         mg/Kg         1         7/11/2016 1:06:02 PM           100         70-130         %Rec         1         7/11/2016 1:06:02 PM           100         70-130         %Rec         1         7/11/2016 1:06:02 PM           MD         4.8         mg/Kg         1         7/11/2016 1:06:02 PM           MD         4.8         mg/Kg         1         7/8/2016 8:46:15 PM           99.8         80-120         %Rec         1         7/8/2016 8:46:15 PM           ND         0.024         mg/Kg         1         7/8/2016 8:46:15 PM           ND         0.048         mg/Kg         1         7/8/2016 8:46:15 PM           ND         0.096         mg/Kg         1         7/8/2016 8:46:15 PM           ND         0.096         mg/Kg         1         7/8/2016 8:46:15 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

\*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 8 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

# Date Reported: 7/18/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITANClient Sample ID: XP-2Project:Trunk MD 16" HydroCollection Date: 7/5/2016 2:40:00 PMLab ID:1607307-002Matrix: SOILReceived Date: 7/6/2016 7:35:00 AM

| Analyses                         | Result  | PQL Qual | Units | DF | Date Analyzed        | Batch |
|----------------------------------|---------|----------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS         |         |          |       |    | Analyst              | LGT   |
| Chloride                         | ND      | 30       | mg/Kg | 20 | 7/11/2016 4:04:45 PM | 26328 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANIC | S        |       |    | Analyst              | том   |
| Diesel Range Organics (DRO)      | ND      | 9.4      | mg/Kg | 1  | 7/11/2016 2:34:49 PM | 26309 |
| Surr: DNOP                       | 95.1    | 70-130   | %Rec  | 1  | 7/11/2016 2:34:49 PM | 26309 |
| EPA METHOD 8015D: GASOLINE RANGE | E       |          |       |    | Analyst              | NSB   |
| Gasoline Range Organics (GRO)    | ND      | 4.7      | mg/Kg | 1  | 7/8/2016 9:09:42 PM  | 26286 |
| Surr: BFB                        | 104     | 80-120   | %Rec  | 1  | 7/8/2016 9:09:42 PM  | 26286 |
| EPA METHOD 8021B: VOLATILES      |         |          |       |    | Analyst              | NSB   |
| Benzene                          | ND      | 0.024    | mg/Kg | 1  | 7/8/2016 9:09:42 PM  | 26286 |
| Toluene                          | ND      | 0.047    | mg/Kg | 1  | 7/8/2016 9:09:42 PM  | 26286 |
| Ethylbenzene                     | ND      | 0.047    | mg/Kg | 1  | 7/8/2016 9:09:42 PM  | 26286 |
| Xylenes, Total                   | ND      | 0.094    | mg/Kg | 1  | 7/8/2016 9:09:42 PM  | 26286 |
| Surr: 4-Bromofluorobenzene       | 99.4    | 80-120   | %Rec  | 1  | 7/8/2016 9:09:42 PM  | 26286 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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- Value exceeds Maximum Contaminant Level.
   D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Date Reported: 7/18/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITANClient Sample ID: XP-3Project: Trunk MD 16" HydroCollection Date: 7/5/2016 2:50:00 PMLab ID: 1607307-003Matrix: SOILReceived Date: 7/6/2016 7:35:00 AM

| Analyses                         | Result  | PQL Qual | Units | DF | Date Analyzed        | Batch |
|----------------------------------|---------|----------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS         |         |          |       |    | Analyst:             | LGT   |
| Chloride                         | ND      | 30       | mg/Kg | 20 | 7/11/2016 4:17:10 PM | 26328 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANIC | S        |       |    | Analyst:             | TOM   |
| Diesel Range Organics (DRO)      | ND      | 9.8      | mg/Kg | 1  | 7/11/2016 2:57:03 PM | 26309 |
| Surr: DNOP                       | 94.4    | 70-130   | %Rec  | 1  | 7/11/2016 2:57:03 PM | 26309 |
| EPA METHOD 8015D: GASOLINE RANG  | E       |          |       |    | Analyst:             | NSB   |
| Gasoline Range Organics (GRO)    | ND      | 4.7      | mg/Kg | 1  | 7/8/2016 9:33:03 PM  | 26286 |
| Surr: BFB                        | 101     | 80-120   | %Rec  | 1  | 7/8/2016 9:33:03 PM  | 26286 |
| EPA METHOD 8021B: VOLATILES      |         |          |       |    | Analyst:             | NSB   |
| Benzene                          | ND      | 0.023    | mg/Kg | 1  | 7/8/2016 9:33:03 PM  | 26286 |
| Toluene                          | ND      | 0.047    | mg/Kg | 1  | 7/8/2016 9:33:03 PM  | 26286 |
| Ethylbenzene                     | ND      | 0.047    | mg/Kg | 1  | 7/8/2016 9:33:03 PM  | 26286 |
| Xylenes, Total                   | ND      | 0.094    | mg/Kg | 1  | 7/8/2016 9:33:03 PM  | 26286 |
| Surr: 4-Bromofluorobenzene       | 96.5    | 80-120   | %Rec  | 1  | 7/8/2016 9:33:03 PM  | 26286 |
|                                  |         |          |       |    |                      |       |

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- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** 

Lab Order 1607307

Date Reported: 7/18/2016

# Hall Environmental Analysis Laboratory, Inc.

| Analyses |                    | Result  | PQL  | Qual Units | DF Date Analyzed          | Batch |
|----------|--------------------|---------|------|------------|---------------------------|-------|
| Lab ID:  | 1607307-004        | Matrix: | SOIL | Received   | Date: 7/6/2016 7:35:00 AM |       |
| Project: | Trunk MD 16" Hydro |         |      | Collection | Date: 7/5/2016 3:00:00 PM |       |
| CLIENT:  | APEX TITAN         |         |      | Client Sam | ple ID: XP-4              |       |

| Analyses                        | Result             | PQL Qu   | al Units | DF | Date Analyzed        | Batch |
|---------------------------------|--------------------|----------|----------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS        |                    |          |          |    | Analyst              | LGT   |
| Chloride                        | ND                 | 30       | mg/Kg    | 20 | 7/11/2016 4:29:35 PM | 26328 |
| EPA METHOD 8015M/D: DIESEL RANG | <b>SE ORGANICS</b> | <b>i</b> |          |    | Analyst              | TOM   |
| Diesel Range Organics (DRO)     | ND                 | 9.9      | mg/Kg    | 1  | 7/11/2016 3:19:27 PM | 26309 |
| Surr: DNOP                      | 85.7               | 70-130   | %Rec     | 1  | 7/11/2016 3:19:27 PM | 26309 |
| EPA METHOD 8015D: GASOLINE RAN  | GE                 |          |          |    | Analyst              | NSB   |
| Gasoline Range Organics (GRO)   | ND                 | 4.8      | mg/Kg    | 1  | 7/8/2016 9:56:28 PM  | 26286 |
| Surr: BFB                       | 99.2               | 80-120   | %Rec     | 1  | 7/8/2016 9:56:28 PM  | 26286 |
| EPA METHOD 8021B: VOLATILES     |                    |          |          |    | Analyst              | NSB   |
| Benzene                         | ND                 | 0.024    | mg/Kg    | 1  | 7/8/2016 9:56:28 PM  | 26286 |
| Toluene                         | ND                 | 0.048    | mg/Kg    | 1  | 7/8/2016 9:56:28 PM  | 26286 |
| Ethylbenzene                    | ND                 | 0.048    | mg/Kg    | 1  | 7/8/2016 9:56:28 PM  | 26286 |
| Xylenes, Total                  | ND                 | 0.096    | mg/Kg    | 1  | 7/8/2016 9:56:28 PM  | 26286 |
| Surr: 4-Bromofluorobenzene      | 93.9               | 80-120   | %Rec     | 1  | 7/8/2016 9:56:28 PM  | 26286 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method    | Blank           |
|-------------|----|---|----|--|-----------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |                 |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 4 of 8     |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | 1 age 4 01 0    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit | it as specified |
|             |    |   |    |  |                 |

# **OC SUMMARY REPORT**

WO#: 1607307

| Han Environmental Analysis Eaboratory, in | mental Analysis Laboratory, Inc |
|---|---------------------------------|
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**Client:** Project:

Chloride

#### **APEX TITAN** Trunk MD 16" Hydro

| Project:   | 1 run     | K MD 16 Hydro            |                             |                |          |
|------------|-----------|--------------------------|-----------------------------|----------------|----------|
| Sample ID  | MB-26328  | SampType: MBLK           | TestCode: EPA Method        | 300.0: Anions  |          |
| Client ID: | PBS       | Batch ID: 26328          | RunNo: 35578                |                |          |
| Prep Date: | 7/11/2016 | Analysis Date: 7/11/2016 | SeqNo: 1101743              | Units: mg/Kg   |          |
| Analyte    |           | Result PQL SPK value     | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit |
| Chloride   |           | ND 1.5                   |                             |                |          |
| Sample ID  | LCS-26328 | SampType: LCS            | TestCode: EPA Method        | 300.0: Anions  |          |
| Client ID: | LCSS      | Batch ID: 26328          | RunNo: 35578                |                |          |
| Prep Date: | 7/11/2016 | Analysis Date: 7/11/2016 | SeqNo: 1101744              | Units: mg/Kg   |          |
| Analyte    |           | Result PQL SPK value     | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit |

93.3

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110

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Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

18-Jul-16

Qual

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| <b>Client:</b>      | APEX TI        | TAN         |         |           |             |          |           |             |            |            |      |
|---------------------|----------------|-------------|---------|-----------|-------------|----------|-----------|-------------|------------|------------|------|
| Project:            | Trunk MI       | D 16" Hydr  | 0       |           |             |          |           |             |            |            |      |
| Sample ID           | LCS-26309      | SampTy      | pe: LC  | S         | Tes         | tCode: E | PA Method | 8015M/D: Di | esel Rang  | e Organics |      |
| Client ID:          | LCSS           | Batch       | ID: 26  | 309       | F           | RunNo: 3 | 5548      |             |            |            |      |
| Prep Date:          | 7/8/2016       | Analysis Da | ate: 7/ | /11/2016  | 5           | SeqNo: 1 | 100969    | Units: mg/l | ٢g         |            |      |
| Analyte             |                | Result      | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| Diesel Range        | Organics (DRO) | 38          | 10      | 50.00     | 0           | 75.6     | 62.6      | 124         |            |            |      |
| Surr: DNOP          | 0              | 4.1         |         | 5.000     |             | 81.5     | 70        | 130         |            |            |      |
| Sample ID           | MB-26309       | SampTy      | /pe: ME | BLK       | Tes         | tCode: E | PA Method | 8015M/D: Di | esel Rang  | e Organics |      |
| Client ID:          | PBS            | Batch       | ID: 26  | 309       | F           | RunNo: 3 | 5548      |             |            |            |      |
| Prep Date:          | 7/8/2016       | Analysis Da | ate: 7/ | /11/2016  | S           | SeqNo: 1 | 100970    | Units: mg/ł | ٢g         |            |      |
| Analyte             |                | Result      | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| <b>Diesel Range</b> | Organics (DRO) | ND          | 10      |           |             |          |           |             |            |            |      |
| Surr: DNOP          | 0              | 8.5         |         | 10.00     |             | 84.8     | 70        | 130         |            |            |      |
| Sample ID           | 1607307-001AMS | SampTy      | pe: MS  | S         | Tes         | tCode: E | PA Method | 8015M/D: Di | esel Range | e Organics |      |
| Client ID:          | XP-1           | Batch       | ID: 26  | 309       | F           | RunNo: 3 | 5548      |             |            |            |      |
| Prep Date:          | 7/8/2016       | Analysis Da | ate: 7/ | /11/2016  | S           | SeqNo: 1 | 101096    | Units: mg/k | ٢g         |            |      |
| Analyte             |                | Result      | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| <b>Diesel Range</b> | Organics (DRO) | 100         | 10      | 50.81     | 0           | 203      | 33.9      | 141         |            |            | S    |
| Surr: DNOP          | 5              | 4.7         |         | 5.081     |             | 92.5     | 70        | 130         |            |            |      |
| Sample ID           | 1607307-001AMS | SampTy      | pe: MS  | SD        | Tes         | tCode: E | PA Method | 8015M/D: Di | esel Rang  | e Organics |      |
| Client ID:          | XP-1           | Batch       | ID: 26  | 309       | F           | RunNo: 3 | 5548      |             |            |            |      |
| Prep Date:          | 7/8/2016       | Analysis Da | ate: 7/ | 11/2016   | S           | SeqNo: 1 | 101097    | Units: mg/k | ٢g         |            |      |
| Analyte             |                | Result      | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| <b>Diesel Range</b> | Organics (DRO) | 120         | 9.5     | 47.26     | 0           | 247      | 33.9      | 141         | 12.0       | 20         | S    |
| Curr DNIOD          |                | 42          |         | 4 726     |             | 89 1     | 70        | 130         | 0          | 0          |      |

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: APEX TITAN

Project: Trunk MD 16" Hydro

| Sample ID MB-26286  | SampT  | ype: ME                                    | BLK                                      | Tes                               | tCode: El  | PA Method                                     | 8015D: Gaso                                    | oline Rang               | e             |      |
|---|--|--|--|-----------------------------------|--|---|--|--------------------------|---------------|------|
| Client ID: PBS  | Batch  | ID: 26                                     | 286                                      | F                                 | RunNo: 3   | 5527  |  |                          |               |      |
| Prep Date: 7/7/2016   | Analysis D                                   | ate: 7/                                    | 8/2016                                   | S                                 | SeqNo: 1   | 100342  | Units: mg/k                                    | ٢g                       |               |      |
| Analyte   | Result                                       | PQL  | SPK value                                | SPK Ref Val                       | %REC   | LowLimit                                      | HighLimit                                      | %RPD                     | RPDLimit      | Qual |
| Gasoline Range Organics (GRO)   | ND   | 5.0  |  |                                   |  |   |  |                          |               |      |
| Surr: BFB   | 1000   |  | 1000                                     |                                   | 102  | 80  | 120  |                          |               |      |
|   |  |  |  |                                   |  |   |  |                          |               |      |
|   |  |  |  |                                   |  |   |  |                          |               |      |
| Sample ID LCS-26286   | SampT  | ype: LC                                    | S  | Tes                               | tCode: El  | PA Method                                     | 8015D: Gaso                                    | line Rang                | 0             |      |
| Sample ID LCS-26286<br>Client ID: LCSS  | SampT<br>Batch                               | ype: LC                                    | S<br>286                                 | Tes                               | tCode: El  | PA Method                                     | 8015D: Gaso                                    | oline Rang               | 0             |      |
| Sample ID LCS-26286<br>Client ID: LCSS<br>Prep Date: 7/7/2016   | SampT<br>Batch<br>Analysis D                 | ype: LC<br>1D: 26:<br>ate: 7/              | S<br>286<br>8/2016                       | Tes<br>F                          | tCode: El<br>RunNo: 3<br>SeqNo: 1                | PA Method<br>5527<br>100343                   | 8015D: Gaso<br>Units: mg/H                     | bline Rang               | 0             |      |
| Sample ID LCS-26286<br>Client ID: LCSS<br>Prep Date: 7/7/2016<br>Analyte                                  | SampT<br>Batch<br>Analysis D<br>Result       | ype: LC<br>1 ID: 26:<br>ate: 7/<br>PQL     | S<br>286<br>8/2016<br>SPK value          | Tes<br>F<br>S<br>SPK Ref Val      | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC        | PA Method<br>5527<br>100343<br>LowLimit       | 8015D: Gaso<br>Units: mg/M<br>HighLimit        | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID LCS-26286<br>Client ID: LCSS<br>Prep Date: 7/7/2016<br>Analyte<br>Gasoline Range Organics (GRO) | SampT<br>Batch<br>Analysis D<br>Result<br>26 | ype: LC<br>1D: 26<br>ate: 7/<br>PQL<br>5.0 | S<br>286<br>8/2016<br>SPK value<br>25.00 | Tes<br>F<br>S<br>SPK Ref Val<br>0 | tCode: El<br>RunNo: 3<br>SeqNo: 1<br>%REC<br>103 | PA Method<br>5527<br>100343<br>LowLimit<br>80 | 8015D: Gaso<br>Units: mg/k<br>HighLimit<br>120 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#:

Client: Project: APEX TITAN Trunk MD 16" Hydro

| Sample ID MB-26286         | SampT      | ype: ME  | BLK       | Tes         | tCode: E | PA Method | 8021B: Vola | tiles |          |      |
|----------------------------|------------|----------|-----------|-------------|----------|-----------|-------------|-------|----------|------|
| Client ID: PBS             | Batch      | n ID: 26 | 286       | F           | RunNo: 3 | 5527      |             |       |          |      |
| Prep Date: 7/7/2016        | Analysis D | ate: 7/  | 8/2016    | S           | SeqNo: 1 | 100371    | Units: mg/k | ٢g    |          |      |
| Analyte                    | Result     | PQL      | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual |
| Benzene                    | ND         | 0.025    |           |             |          |           |             |       |          |      |
| Toluene                    | ND         | 0.050    |           |             |          |           |             |       |          |      |
| Ethylbenzene               | ND         | 0.050    |           |             |          |           |             |       |          |      |
| Xylenes, Total             | ND         | 0.10     |           |             |          |           |             |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.99       |          | 1.000     |             | 98.9     | 80        | 120         |       |          |      |
| Sample ID LCS-26286        | SampT      | ype: LC  | S         | Tes         | tCode: E | PA Method | 8021B: Vola | tiles |          |      |
| Client ID: LCSS            | Batch      | n ID: 26 | 286       | F           | RunNo: 3 | 5527      |             |       |          |      |
| Prep Date: 7/7/2016        | Analysis D | ate: 7/  | 8/2016    | S           | SeqNo: 1 | 100372    | Units: mg/k | ٢g    |          |      |
| Analyte                    | Result     | PQL      | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.99       | 0.025    | 1.000     | 0           | 98.6     | 75.3      | 123         |       |          |      |
| Toluene                    | 0.96       | 0.050    | 1.000     | 0           | 95.8     | 80        | 124         |       |          |      |
| Ethylbenzene               | 0.98       | 0.050    | 1.000     | 0           | 98.3     | 82.8      | 121         |       |          |      |
| Xylenes, Total             | 2.9        | 0.10     | 3.000     | 0           | 97.6     | 83.9      | 122         |       |          |      |
| Surr: 4-Bromofluorobenzene | 1.0        |          | 1.000     |             | 103      | 80        | 120         |       |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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18-Jul-16

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| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY  | Albu<br>TEL: 505-345-3975 I<br>Website: www.hal | 4901<br>querqui<br>FAX: 5<br>leaviro | Hawkins N!<br>. NM 8710<br>95-345-410<br>umental.com | s<br>Sa  | mp | ole Log-In C                      | heck List            |
|--|---|--------------------------------------|--|----------|----|-----------------------------------|----------------------|
| Client Name: APEX AZTEC  | Work Order Number                               | 16073                                | 07   |          |    | RcptNo                            | 1                    |
| Received by/date: AT O'  | loche   |                                      |  |          |    |                                   |                      |
| Logged By: Lindsay Mangin 7/   | 6/2016 7:35:00 AM                               |                                      | í  | Julyth   | PO |                                   |                      |
| Completed By: Lindsay Mangin 77  | 7/2016 1:15:37 PM                               |                                      | (  | Julyth   | P  |                                   |                      |
| Reviewed By: DA 09/10  | 7/16  |                                      |  |          |    |                                   |                      |
| Chain of Custody   |   |                                      |  |          |    |                                   |                      |
| 1. Custody seals intact on sample bottles?   |   | Yes                                  |  | No       |    | Not Present 🖌                     |                      |
| 2. Is Chain of Custody complete?   |   | Yes                                  |  | No       | ]  | Not Present                       |                      |
| 3. How was the sample delivered?   |   | Cour                                 | er   |          |    |                                   |                      |
| Log in   |   |                                      |  |          |    |                                   |                      |
| 4. Was an attempt made to cool the samples?  |   | Yes                                  | ~  | No       |    | NA                                |                      |
| 5. Were all samples received at a temperature of   | >0° C to 6.0°C                                  | Yes                                  | V  | No       | 1  | NA                                |                      |
| 6. Sample(s) in proper container(s)?   |   | Yes                                  |  | No       |    |                                   |                      |
| 7. Sufficient sample volume for indicated test(s)?   |   | Yes                                  |  | No       | 1  |                                   |                      |
| 8 Are samples (except VOA and ONG) properly p  | reserved?                                       | Yes                                  | ~  | No       | ]  |                                   |                      |
| 9. Was preservative added to bottles?  |   | Yes                                  |  | No       |    | NA                                |                      |
| 10.VOA vials have zero headspace?  |   | Yes                                  |  | No [     | ]  | No VOA Vials                      |                      |
| 11. Were any sample containers received broken?  |   | Yes                                  |  | No       |    | # of preserved<br>bottles checked |                      |
| 12. Does paperwork match bottle labels?  |   | Yes                                  | $\checkmark$   | No       |    | for pH:<br>(<2                    | or >12 unless noted) |
| 13 Are matrices correctly identified on Chain of Cu  | stody?  | Yes                                  | 1  | No       |    | Adjusted?                         |                      |
| 14. Is it clear what analyses were requested?  |   | Yes                                  | V  | No       |    |                                   |                      |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.)              |   | Yes                                  |  | No       |    | Checked by:                       |                      |
| Special Handling (if applicable)   |   |                                      |  |          |    |                                   |                      |
| 16. Was client notified of all discrepancies with this   | order?  | Yes                                  |  | No       |    | NA M                              |                      |
| Person Notified:   | Date  |                                      |  |          |    |                                   |                      |
| By Whom:   | Via:  | eMa                                  | il [] Pho  | one 🗌 F  | ax | In Person                         |                      |
| Regarding:   | arean a filling and a second data               |                                      |  |          |    |                                   |                      |
| Client Instructions:   |   |                                      |  |          |    |                                   |                      |
| 17. Additional remarks:  |   |                                      |  |          |    |                                   |                      |
| 18. <u>Cooler Information</u><br><u>Cooler No</u> Temp <sup>e</sup> C Condition Seal<br>1 1.0 Good Yes | Intact Seal No 5                                | Seal Da                              | ate S  | igned By |    |                                   |                      |

| Al<br>Office<br>Projee<br>Sampi | PE><br>e Locati | onA                                       | 2ter  | c+0   | Laboratory:<br>Address:<br>Contact:<br>Phone:<br>PO/SO #:<br>Sampler's Sign  |        | Free<br>Ga                              | ma   | 10       |        |  |     | AN       | QUE  | SIS     | ED Lab use only<br>Due Date: -<br>/.Č<br>Temp. of coolers<br>when received (C*):<br>1 2 3 4<br>Page |
|---------------------------------|-----------------|---|-------|-------|--|--------|---|------|----------|--------|--|-----|----------|------|---------|---|
| Ka<br>Proj. N                   | neeD            | eechil                                    | Proje | ct Na | me Exer Du   | ch     | 10                                      | No/T | ype of C | ontain | ers                                    |     | -        | dia. | FOLC    |   |
|                                 |                 |   |       | Tr    | UNK MOIL" Hide   | 0      |   |      | 1        | TT     | _                                      |     |          | /    | 7       | 7 / / / / / /   |
| Matrix                          | Date            | Time                                      | DOED  | ab    | Identifying Marks of Sample(s)   | Start  | Depth                                   | VOA  | AG 1     | a 250  | Jar                                    | P/O |          | /    | /       | Lab Sample ID (Lab Use Only   |
| 5                               | 71514           | 1430                                      |       |       | XP-1   |        |   |      |          |        | i                                      |     | ×        | ×    | ×       | 1607307-00  |
| S                               |                 | 1440                                      |       |       | XP-2   |        |   |      |          |        | 1                                      |     | ×        | ×    | ×       | - 007   |
| S                               |                 | 1450                                      |       |       | 18.3   |        |   |      |          |        | +                                      |     | ×        | ×    | X       | -002  |
| 5                               | 1               | 1500                                      |       | ì     | XP-4   |        |   |      |          |        | 1                                      |     | X        | X    | ×       | -004  |
| 7                               |                 |   |       |       |  |        |   |      |          |        |  |     |          |      |         |   |
|                                 |                 |   |       |       |  |        |   |      |          |        |  |     |          |      |         |   |
|                                 |                 |   |       |       | MARS   |        |   |      |          |        | _                                      |     |          |      |         |   |
|                                 |                 |   |       |       |  |        |   | -    |          |        | _                                      |     |          |      |         |   |
|                                 |                 | 1   |       | _     |  |        |   |      |          |        |  |     |          | _    |         |   |
| Turn a                          | ound tim        |   | mal   |       | 5% Ruch 350% Ruch  | 100%   | Ruch                                    |      |          |        |  |     |          |      |         |   |
| Reling                          | uished by       | (Signature)<br>(Signature)<br>(Signature) | ,<br> | 7     | Date:         Time:         Receive           [5]16         [740]         1           pate:         Time:         Receive           5/16         [740]         1           pate:         Time:         Receive           5/16         [740]         1           pate:         Time:         Receive           5/16         [740]         1           pate:         Time:         Receive           pate:         Time:         Receive | ed by: | : (Signa<br>) -<br>: (Signa<br>: (Signa |      | ele      | = -    | Date:<br>7/5<br>Date:<br>7/11<br>Date: | 116 | 17<br>17 |      | , '<br> | NOTES:<br>Bill to Tom Long Eppors   |
| 1                               | lab a d b       | (Cion at une)                             |       |       | The Death  |        | (0)                                     | +    |          |        | Data                                   |     | -        |      | _       |   |

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Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

August 20, 2016.

Thomas Long Enterprise Field Services 614 Reilly Ave. Farmington, NM 87401 TEL: (505) 599-2141 FAX

RE: Trunk MD 16 Inch

OrderNo.: 1607128

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/6/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 13, 2016.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1607128 Date Reported: 8/20/2016

# Hall Environmental Analysis Laboratory, Inc.

| CLIENT: Enterprise Field Services |         |          | Clie    | nt Sampl | le ID: Rup | oture #6 |                      |          |
|-----------------------------------|---------|----------|---------|----------|------------|----------|----------------------|----------|
| Project: Trunk MD 16 Inch         |         |          | Со      | llection | Date: 7/5/ | 2016 1   | 1:30:00 AM           |          |
| Lab ID: 1607128-001               | Matrix: | AQUEOUS  | S R     | eceived  | Date: 7/6/ | 2016 7:  | :35:00 AM            |          |
| Analyses                          | Result  | MDL      | PQL     | Qual     | Units      | DF       | Date Analyzed        | Batch ID |
| EPA METHOD 300.0: ANIONS          |         |          |         |          |            |          | Analyst: LGT         |          |
| Fluoride                          | 0.35    | 0.14     | 0.50    | J        | mg/L       | 5        | 7/6/2016 5:20:12 PM  | A35474   |
| Chloride                          | 37      | 0.14     | 2.5     |          | mg/L       | 5        | 7/6/2016 5:20:12 PM  | A35474   |
| Nitrogen, Nitrite (As N)          | ND      | 0.26     | 0.50    |          | mg/L       | 5        | 7/6/2016 5:20:12 PM  | A35474   |
| Bromide                           | 0.93    | 0.22     | 0.50    |          | mg/L       | 5        | 7/6/2016 5:20:12 PM  | A35474   |
| Nitrogen, Nitrate (As N)          | 0.32    | 0.20     | 0.50    | J        | mg/L       | 5        | 7/6/2016 5:20:12 PM  | A35474   |
| Phosphorus, Orthophosphate (As P) | ND      | 1.1      | 2.5     |          | mg/L       | 5        | 7/6/2016 5:20:12 PM  | A35474   |
| Sulfate                           | 54      | 0.71     | 2.5     |          | mg/L       | 5        | 7/6/2016 5:20:12 PM  | A35474   |
| EPA METHOD 7470: MERCURY          |         |          |         |          |            |          | Analyst: pmf         |          |
| Mercury                           | 0.00019 | 0.000053 | 0.00020 | J        | mg/L       | 1        | 7/8/2016 1:56:42 PM  | 26294    |
| EPA 6010B: TOTAL RECOVERABLE M    | ETALS   |          |         |          |            |          | Analyst: MED         |          |
| Arsenic                           | 0.011   | 0.0082   | 0.020   | J        | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Barium                            | 0.25    | 0.00070  | 0.020   |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Cadmium                           | ND      | 0.00078  | 0.0020  |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Calcium                           | 44      | 0.066    | 1.0     |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Chromium                          | 0.0047  | 0.0012   | 0.0060  | J        | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Lead                              | ND      | 0.0041   | 0.0050  |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Magnesium                         | 7.8     | 0.020    | 1.0     |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Potassium                         | 19      | 0.12     | 1.0     |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Selenium                          | ND      | 0.025    | 0.050   |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Silver                            | ND      | 0.00072  | 0.0050  |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| Sodium                            | 18      | 0.21     | 1.0     |          | mg/L       | 1        | 7/8/2016 11:39:42 AM | 26285    |
| EPA METHOD 8260B: VOLATILES       |         |          |         |          | 0          |          | Analyst: DJF         |          |
| Benzene                           | ND      | 19       | 200     |          | ug/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Toluene                           | ND      | 24       | 200     |          | ug/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Ethylbenzene                      | ND      | 22       | 200     |          | ug/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Methyl tert-butyl ether (MTBE)    | ND      | 42       | 200     |          | ug/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1.2.4-Trimethylbenzene            | ND      | 22       | 200     |          | ug/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1.3.5-Trimethylbenzene            | ND      | 23       | 200     |          | ug/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1.2-Dichloroethane (EDC)          | ND      | 23       | 200     |          | ug/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1.2-Dibromoethane (EDB)           | ND      | 22       | 200     |          | ua/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Naphthalene                       | ND      | 19       | 400     |          | ua/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1-Methylnaphthalene               | ND      | 41       | 800     |          | ua/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 2-Methylnaphthalene               | ND      | 32       | 800     |          | ug/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Acetone                           | ND      | 980      | 2000    |          | ug/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Bromobenzene                      | ND      | 20       | 200     |          | ug/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Bromodichloromethane              | ND      | 28       | 200     |          | ua/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Bromoform                         | ND      | 20       | 200     |          | ua/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Bromomethane                      | ND      | 160      | 600     |          | ug/l       | 200      | 7/6/2016 11:14:45 PM | A35447   |
|                                   |         | 100      | 000     |          | Ha.C       | 200      | 10201011.14.40110    | 100441   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits

Sample Diluted Due to Matrix

S % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 1 of 10

**Analytical Report** 

#### Lab Order 1607128 Date Reported: 8/20/2016

# Hall Environmental Analysis Laboratory, Inc.

Matrix: AQUEOUS

**CLIENT:** Enterprise Field Services

1607128-001

Trunk MD 16 Inch

**Project:** 

Lab ID:

Client Sample ID: Rupture #6 Collection Date: 7/5/2016 11:30:00 AM

Received Date: 7/6/2016 7:35:00 AM

| Analyses                    | Result | MDL | PQL  | Qual | Units | DF  | Date Analyzed        | Batch ID |
|-----------------------------|--------|-----|------|------|-------|-----|----------------------|----------|
| EPA METHOD 8260B: VOLATILES |        |     |      |      |       |     | Analyst: DJF         |          |
| 2-Butanone                  | ND     | 150 | 2000 |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Carbon disulfide            | ND     | 120 | 2000 |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Carbon Tetrachloride        | ND     | 22  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Chlorobenzene               | ND     | 23  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Chloroethane                | ND     | 38  | 400  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Chloroform                  | 85     | 18  | 200  | J    | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Chloromethane               | ND     | 43  | 600  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 2-Chlorotoluene             | ND     | 80  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 4-Chlorotoluene             | ND     | 26  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| cis-1,2-DCE                 | ND     | 25  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| cis-1,3-Dichloropropene     | ND     | 21  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,2-Dibromo-3-chloropropane | ND     | 47  | 400  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Dibromochloromethane        | ND     | 17  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Dibromomethane              | ND     | 24  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,2-Dichlorobenzene         | ND     | 80  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,3-Dichlorobenzene         | ND     | 29  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,4-Dichlorobenzene         | ND     | 29  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Dichlorodifluoromethane     | ND     | 71  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,1-Dichloroethane          | ND     | 22  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,1-Dichloroethene          | ND     | 21  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,2-Dichloropropane         | ND     | 22  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,3-Dichloropropane         | ND     | 31  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 2,2-Dichloropropane         | ND     | 33  | 400  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,1-Dichloropropene         | ND     | 27  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Hexachlorobutadiene         | ND     | 40  | 200  |      | μg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 2-Hexanone                  | ND     | 170 | 2000 |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Isopropylbenzene            | ND     | 21  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 4-Isopropyltoluene          | ND     | 28  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 4-Methyl-2-pentanone        | ND     | 86  | 2000 |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Methylene Chloride          | ND     | 37  | 600  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| n-Butylbenzene              | ND     | 32  | 600  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| n-Propylbenzene             | ND     | 26  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| sec-Butylbenzene            | ND     | 25  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Styrene                     | ND     | 22  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| tert-Butylbenzene           | ND     | 23  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,1,1,2-Tetrachloroethane   | ND     | 22  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| 1,1,2,2-Tetrachloroethane   | ND     | 26  | 400  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| Tetrachloroethene (PCE)     | ND     | 30  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |
| trans-1,2-DCE               | ND     | 80  | 200  |      | µg/L  | 200 | 7/6/2016 11:14:45 PM | A35447   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/20/2016

# Hall Environmental Analysis Laboratory, Inc.

-

| <b>CLIENT:</b> Enterprise Field Services |         |         | Clier  | nt Sampl | e ID: Rup  | oture #6 |                      |          |
|--|---------|---------|--------|----------|------------|----------|----------------------|----------|
| Project: Trunk MD 16 Inch                |         |         | Co     | llection | Date: 7/5/ | 2016 1   | :30:00 AM            |          |
| Lab ID: 1607128-001                      | Matrix: | AQUEOUS | R      | eceived  | Date: 7/6/ | 2016 7:  | 35:00 AM             |          |
| Analyses                                 | Result  | MDL     | PQL    | Qual     | Units      | DF       | Date Analyzed        | Batch ID |
| EPA METHOD 8260B: VOLATILES              |         |         |        |          |            |          | Analyst: DJF         |          |
| trans-1,3-Dichloropropene                | ND      | 21      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1,2,3-Trichlorobenzene                   | ND      | 23      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1,2,4-Trichlorobenzene                   | ND      | 27      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1,1,1-Trichloroethane                    | ND      | 18      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1,1,2-Trichloroethane                    | ND      | 25      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Trichloroethene (TCE)                    | ND      | 35      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Trichlorofluoromethane                   | ND      | 41      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| 1,2,3-Trichloropropane                   | ND      | 40      | 400    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Vinyl chloride                           | ND      | 39      | 200    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Xylenes, Total                           | ND      | 73      | 300    |          | µg/L       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Surr: 1,2-Dichloroethane-d4              | 97.7    | 0       | 70-130 |          | %Rec       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Surr: 4-Bromofluorobenzene               | 104     | 0       | 70-130 |          | %Rec       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Surr: Dibromofluoromethane               | 100     | 0       | 70-130 |          | %Rec       | 200      | 7/6/2016 11:14:45 PM | A35447   |
| Surr: Toluene-d8                         | 96.1    | 0       | 70-130 |          | %Rec       | 200      | 7/6/2016 11:14:45 PM | A35447   |

| Qualifier | rs: * | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank           |               |
|-----------|-------|---|----|---|---------------|
|           | D     | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |               |
|           | Н     | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits                | Page 3 of 10  |
|           | ND    | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    | 1 460 5 01 10 |
|           | R     | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |               |
|           | S     | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |               |
|           |       |   |    |   |               |

WO#: 1607128

20-Aug-16

| Client: Enterpr                  | ise Field Se | rvices   |           |             |           |           |               |                |          |      |
|----------------------------------|--------------|----------|-----------|-------------|-----------|-----------|---------------|----------------|----------|------|
| Project: Trunk I                 | MD 16 Inch   |          |           |             |           |           |               |                |          |      |
| Sample ID MB                     | Samp         | Type: ME | BLK       | Tes         | tCode: E  | PA Method | 300.0: Anions | s <sup>`</sup> |          |      |
| Client ID: PBW                   | Batc         | h ID: A3 | 5474      | F           | RunNo: 3  | 5474      |               |                |          |      |
| Prep Date:                       | Analysis [   | Date: 7/ | 6/2016    | S           | SeqNo: 1  | 098104    | Units: mg/L   |                |          |      |
| Analyte                          | Result       | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit     | %RPD           | RPDLimit | Qual |
| Fluoride                         | ND           | 0.10     |           |             |           |           |               |                |          |      |
| Chloride                         | ND           | 0.50     |           |             |           |           |               |                |          |      |
| Nitrogen, Nitrite (As N)         | ND           | 0.10     |           |             |           |           |               |                |          |      |
| Bromide                          | ND           | 0.10     |           |             |           |           |               |                |          |      |
| Nitrogen, Nitrate (As N)         | ND           | 0.10     |           |             |           |           |               |                |          |      |
| Phosphorus, Orthophosphate (As P | ND           | 0.50     |           |             |           |           |               |                |          |      |
| Sulfate                          | ND           | 0.50     |           |             |           |           |               |                |          |      |
| Sample ID LCS                    | Samp         | Type: LC | S         | Tes         | tCode: El | PA Method | 300.0: Anions | 5              |          |      |
| Client ID: LCSW                  | Batc         | h ID: A3 | 5474      | F           | RunNo: 3  | 5474      |               |                |          |      |
| Prep Date:                       | Analysis [   | Date: 7/ | 6/2016    | S           | SeqNo: 1  | 098105    | Units: mg/L   |                |          |      |
| Analyte                          | Result       | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit     | %RPD           | RPDLimit | Qual |
| Fluoride                         | 0.51         | 0.10     | 0.5000    | 0           | 102       | 90        | 110           |                |          |      |
| Chloride                         | 4.9          | 0.50     | 5.000     | 0           | 97.4      | 90        | 110           |                |          |      |
| Nitrogen, Nitrite (As N)         | 0.94         | 0.10     | 1.000     | 0           | 93.9      | 90        | 110           |                |          |      |
| Bromide                          | 2.5          | 0.10     | 2.500     | 0           | 99.4      | 90        | 110           |                |          |      |
| Nitrogen, Nitrate (As N)         | 2.5          | 0.10     | 2.500     | 0           | 101       | 90        | 110           |                |          |      |
| Phosphorus, Orthophosphate (As P | 5.0          | 0.50     | 5.000     | 0           | 99.0      | 90        | 110           |                |          |      |
| Sulfate                          | 9.9          | 0.50     | 10.00     | 0           | 99.3      | 90        | 110           |                |          |      |

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

Page 4 of 10

#### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

1

| Sample ID rb                   | SampT      | ype: MBI | LK'       | Tes         | tCode: E | PA Method | 8260B: VOL  | ATILES |          |      |
|--------------------------------|------------|----------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW                 | Batch      | ID: A35  | 447       | F           | RunNo: 3 | 5447      |             |        |          |      |
| Prep Date:                     | Analysis D | ate: 7/6 | /2016     | 5           | SeqNo: 1 | 097715    | Units: µg/L |        |          |      |
| Analyte                        | Result     | PQL      | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                        | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Toluene                        | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Ethylbenzene                   | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Methyl tert-butyl ether (MTBE) | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,2,4-Trimethylbenzene         | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,3,5-Trimethylbenzene         | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,2-Dichloroethane (EDC)       | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,2-Dibromoethane (EDB)        | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Naphthalene                    | ND         | 2.0      |           |             |          |           |             |        |          |      |
| 1-Methylnaphthalene            | ND         | 4.0      |           |             |          |           |             |        |          |      |
| 2-Methylnaphthalene            | ND         | 4.0      |           |             |          |           |             |        |          |      |
| Acetone                        | ND         | 10       |           |             |          |           |             |        |          |      |
| Bromobenzene                   | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Bromodichloromethane           | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Bromoform                      | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Bromomethane                   | ND         | 3.0      |           |             |          |           |             |        |          |      |
| 2-Butanone                     | ND         | 10       |           |             |          |           |             |        |          |      |
| Carbon disulfide               | ND         | 10       |           |             |          |           |             |        |          |      |
| Carbon Tetrachloride           | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Chlorobenzene                  | 0.28       | 1.0      |           |             |          |           |             |        |          | J    |
| Chloroethane                   | ND         | 2.0      |           |             |          |           |             |        |          |      |
| Chloroform                     | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Chloromethane                  | ND         | 3.0      |           |             |          |           |             |        |          |      |
| 2-Chlorotoluene                | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 4-Chlorotoluene                | ND         | 1.0      |           |             |          |           |             |        |          |      |
| cis-1,2-DCE                    | ND         | 1.0      |           |             |          |           |             |        |          |      |
| cis-1,3-Dichloropropene        | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,2-Dibromo-3-chloropropane    | ND         | 2.0      |           |             |          |           |             |        |          |      |
| Dibromochloromethane           | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Dibromomethane                 | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,2-Dichlorobenzene            | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,3-Dichlorobenzene            | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,4-Dichlorobenzene            | ND         | 1.0      |           |             |          |           |             |        | ,        |      |
| Dichlorodifluoromethane        | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,1-Dichloroethane             | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,1-Dichloroethene             | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,2-Dichloropropane            | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,3-Dichloropropane            | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 2,2-Dichloropropane            | ND         | 2.0      |           |             |          |           |             |        |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1607128

20-Aug-16

#### **Enterprise Field Services Client:**

Trunk MD 16 Inch **Project:** 

| Sample ID rb                | SampT      | ype: M   | BLK       | Tes         | tCode: E  | PA Method | 8260B: VOL  | ATILES |          |      |
|-----------------------------|------------|----------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Client ID: PBW              | Batch      | h ID: A3 | 5447      | F           | RunNo: 3  | 5447      |             |        |          |      |
| Prep Date:                  | Analysis D | Date: 7/ | 6/2016    | 5           | SeqNo: 1  | 097715    | Units: µg/L |        |          |      |
| Analyte                     | Result     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| 1,1-Dichloropropene         | ND         | 1.0      |           |             |           |           |             |        |          |      |
| Hexachlorobutadiene         | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 2-Hexanone                  | ND         | 10       |           |             |           |           |             |        |          |      |
| Isopropylbenzene            | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 4-Isopropyltoluene          | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 4-Methyl-2-pentanone        | 0.50       | 10       |           |             |           |           |             |        |          | J    |
| Methylene Chloride          | ND         | 3.0      |           |             |           |           |             |        |          |      |
| n-Butylbenzene              | ND         | 3.0      |           |             |           |           |             |        |          |      |
| n-Propylbenzene             | ND         | 1.0      |           |             |           |           |             |        |          |      |
| sec-Butylbenzene            | ND         | 1.0      |           |             |           |           |             |        |          |      |
| Styrene                     | ND         | 1.0      |           |             |           |           |             |        |          |      |
| tert-Butylbenzene           | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 1,1,1,2-Tetrachloroethane   | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 1,1,2,2-Tetrachloroethane   | ND         | 2.0      |           |             |           |           |             |        |          |      |
| Tetrachloroethene (PCE)     | ND         | 1.0      |           |             |           |           |             |        |          |      |
| trans-1,2-DCE               | ND         | 1.0      |           |             |           |           |             |        |          |      |
| trans-1,3-Dichloropropene   | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 1,2,3-Trichlorobenzene      | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 1,2,4-Trichlorobenzene      | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 1,1,1-Trichloroethane       | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 1,1,2-Trichloroethane       | ND         | 1.0      |           |             |           |           |             |        |          |      |
| Trichloroethene (TCE)       | ND         | 1.0      |           |             |           |           |             |        |          |      |
| Trichlorofluoromethane      | ND         | 1.0      |           |             |           |           |             |        |          |      |
| 1,2,3-Trichloropropane      | ND         | 2.0      |           |             |           |           |             |        |          |      |
| Vinyl chloride              | ND         | 1.0      |           |             |           |           |             |        |          |      |
| Xylenes, Total              | ND         | 1.5      |           |             |           |           |             |        |          |      |
| Surr: 1,2-Dichloroethane-d4 | 9.9        |          | 10.00     |             | 99.3      | 70        | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene  | 11         |          | 10.00     |             | 107       | 70        | 130         |        |          |      |
| Surr: Dibromofluoromethane  | 10         |          | 10.00     |             | 99.5      | 70        | 130         |        |          |      |
| Surr: Toluene-d8            | 10         |          | 10.00     |             | 102       | 70        | 130         |        |          | 14   |
| Sample ID 100ng Ics2        | SampT      | ype: LC  | S         | Tes         | tCode: El | PA Method | 8260B: VOL  | ATILES |          |      |
| Client ID: LCSW             | Batch      | n ID: A3 | 5447      | F           | RunNo: 3  | 5447      |             |        |          |      |
| Prep Date:                  | Analysis D | ate: 7/  | 6/2016    | 5           | SeqNo: 1  | 097716    | Units: µg/L |        |          |      |
| Analyte                     | Result     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                     | 20         | 1.0      | 20.00     | 0           | 98.7      | 70        | 130         |        |          |      |
| Toluene                     | 20         | 1.0      | 20.00     | 0           | 101       | 70        | 130         |        |          |      |
| Chlorobenzene               | 20         | 1.0      | 20.00     | 0           | 97.6      | 70        | 130         |        |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range E
- J Analyte detected below quantitation limits
- Page 6 of 10
- Sample pH Not In Range RL **Reporting Detection Limit**

Р

W Sample container temperature is out of limit as specified WO#: 1607128

20-Aug-16

### WO#: 1607128

20-Aug-16

| Client:EnterprisProject:Trunk M | se Field Ser<br>D 16 Inch | vices   |           |             |           |           |             |        |          |      |
|---------------------------------|---------------------------|---------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Sample ID 100ng lcs2            | SampT                     | ype: LC | S         | Tes         | tCode: El | PA Method | 8260B: VOL  | ATILES |          | *    |
| Client ID: LCSW                 | Batch                     | ID: A3  | 5447      | F           | RunNo: 3  | 5447      |             |        |          |      |
| Prep Date:                      | Analysis D                | ate: 7/ | 6/2016    | 5           | SeqNo: 1  | 097716    | Units: µg/L |        |          |      |
| Analyte                         | Result                    | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| 1,1-Dichloroethene              | 21                        | 1.0     | 20.00     | 0           | 107       | 70        | 130         |        |          |      |
| Trichloroethene (TCE)           | 20                        | 1.0     | 20.00     | 0           | 97.7      | 70        | 130         |        |          |      |
| Surr: 1,2-Dichloroethane-d4     | 9.9                       |         | 10.00     |             | 98.6      | 70        | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene      | 11                        |         | 10.00     |             | 107       | 70        | 130         |        |          |      |
| Surr: Dibromofluoromethane      | 9.9                       |         | 10.00     |             | 98.7      | 70        | 130         |        |          |      |
| Surr: Toluene-d8                | 10                        |         | 10.00     |             | 99.6      | 70        | 130         |        |          |      |
| Sample ID 1607128-001a ms       | SampT                     | ype: MS | 5         | Tes         | tCode: El | PA Method | 8260B: VOL  | ATILES |          |      |
| Client ID: Rupture #6           | Batch                     | ID: A3  | 5447      | F           | RunNo: 3  | 5447      |             |        |          |      |
| Prep Date:                      | Analysis D                | ate: 7/ | 6/2016    | S           | SeqNo: 1  | 097718    | Units: µg/L |        |          |      |
| Analyte                         | Result                    | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                         | 4100                      | 200     | 4000      | 0           | 102       | 70        | 130         |        |          |      |
| Toluene                         | 4000                      | 200     | 4000      | 0           | 101       | 70        | 130         |        |          |      |
| Chlorobenzene                   | 3800                      | 200     | 4000      | 0           | 95.9      | 70        | 130         |        |          |      |
| 1,1-Dichloroethene              | 4200                      | 200     | 4000      | 0           | 105       | 70        | 130         |        |          |      |
| Trichloroethene (TCE)           | 3900                      | 200     | 4000      | 0           | 96.9      | 70        | 130         |        |          |      |
| Surr: 1,2-Dichloroethane-d4     | 1900                      |         | 2000      |             | 96.3      | 70        | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene      | 2100                      |         | 2000      |             | 106       | 70        | 130         |        |          |      |
| Surr: Dibromofluoromethane      | 2000                      |         | 2000      |             | 99.4      | 70        | 130         |        |          |      |
| Surr: Toluene-d8                | 2000                      |         | 2000      |             | 99.1      | 70        | 130         |        |          |      |
| Sample ID 1607128-001a ms       | d SampT                   | ype: MS | D         | Tes         | tCode: El | PA Method | 8260B: VOL  | ATILES |          |      |
| Client ID: Rupture #6           | Batch                     | ID: A3  | 5447      | F           | RunNo: 3  | 5447      |             |        |          |      |
| Prep Date:                      | Analysis D                | ate: 7/ | 7/2016    | S           | SeqNo: 1  | 097719    | Units: µg/L |        |          |      |
| Analyte                         | Result                    | PQL     | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                         | 4000                      | 200     | 4000      | 0           | 101       | 70        | 130         | 0.863  | 20       |      |
| Toluene                         | 4000                      | 200     | 4000      | 0           | 101       | 70        | 130         | 0.101  | 20       |      |
| Chlorobenzene                   | 3800                      | 200     | 4000      | 0           | 94.7      | 70        | 130         | 1.24   | 20       |      |
| 1,1-Dichloroethene              | 4200                      | 200     | 4000      | 0           | 106       | 70        | 130         | 0.576  | 20       |      |
| Trichloroethene (TCE)           | 3800                      | 200     | 4000      | 0           | 96.0      | 70        | 130         | 0.938  | 20       |      |
| Surr: 1,2-Dichloroethane-d4     | 2000                      |         | 2000      |             | 101       | 70        | 130         | 0      | 0        |      |
| Surr: 4-Bromofluorobenzene      | 2000                      |         | 2000      |             | 102       | 70        | 130         | 0      | 0        |      |
| Surr: Dibromofluoromethane      | 2100                      |         | 2000      |             | 105       | 70        | 130         | 0      | 0        |      |
| Surr: Toluene-d8                | 2000                      |         | 2000      |             | 99.9      | 70        | 130         | 0      | 0        |      |

#### Qualifiers:

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- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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# QC SUMMARY REPORT

WO#: 1607128

20-Aug-16

| Hall | Environmental  | Analysis      | Laboratory, Inc. |  |
|------|----------------|---------------|------------------|--|
|      | Lavinoninentai | 7 11141 9 515 | Laboratory, me.  |  |

| <b>Client:</b> | Enterprise     | e Field Servic | es           |             |            |          |               |      |          |      |
|----------------|----------------|----------------|--------------|-------------|------------|----------|---------------|------|----------|------|
| Project:       | Trunk MI       | D 16 Inch      |              |             |            |          |               |      |          |      |
| Sample ID      | MB-26294       | SampType       | MBLK         | Tes         | tCode: ÈP  | A Method | 7470: Mercur  | y ·  |          |      |
| Client ID:     | PBW            | Batch ID:      | 26294        | F           | RunNo: 35  | 534      |               |      |          |      |
| Prep Date:     | 7/7/2016       | Analysis Date: | 7/8/2016     | 5           | SeqNo: 11  | 00169    | Units: mg/L   |      |          |      |
| Analyte        |                | Result P       | QL SPK value | SPK Ref Val | %REC       | LowLimit | HighLimit     | %RPD | RPDLimit | Qual |
| Mercury        |                | 0.00013 0.00   | 020          |             |            |          |               |      |          | J    |
| Sample ID      | LCS-26294      | SampType       | LCS          | Tes         | tCode: EP/ | A Method | 7470: Mercur  | y    |          |      |
| Client ID:     | LCSW           | Batch ID:      | 26294        | F           | tunNo: 35  | 534      |               |      |          |      |
| Prep Date:     | 7/7/2016       | Analysis Date: | 7/8/2016     | 5           | eqNo: 110  | 00170    | Units: mg/L   |      |          |      |
| Analyte        |                | Result P       | QL SPK value | SPK Ref Val | %REC       | LowLimit | HighLimit     | %RPD | RPDLimit | Qual |
| Mercury        |                | 0.0050 0.00    | 020 0.005000 | 0           | 100        | 80       | 120           |      |          |      |
| Sample ID      | 1607128-001CMS | SampType       | MS           | Tes         | tCode: EP/ | A Method | 7470: Mercury | y    |          |      |
| Client ID:     | Rupture #6     | Batch ID:      | 26294        | F           | tunNo: 35  | 534      |               |      |          |      |
| Prep Date:     | 7/7/2016       | Analysis Date: | 7/8/2016     | 5           | eqNo: 110  | 00172    | Units: mg/L   |      |          |      |
| Analyte        |                | Result P       | QL SPK value | SPK Ref Val | %REC       | LowLimit | HighLimit     | %RPD | RPDLimit | Qual |
| Mercury        |                | 0.0064 0.00    | 020 0.005000 | 0.0001875   | 125        | 75       | 125           |      |          |      |
| Sample ID      | 1607128-001CMS | SampType       | MSD          | Tes         | tCode: EP/ | A Method | 7470: Mercury | y    |          |      |
| Client ID:     | Rupture #6     | Batch ID:      | 26294        | F           | tunNo: 35! | 534      |               |      |          |      |
| Prep Date:     | 7/7/2016       | Analysis Date: | 7/8/2016     | 5           | SeqNo: 110 | 00173    | Units: mg/L   |      |          |      |
| Analyte        |                | Result P       | QL SPK value | SPK Ref Val | %REC       | LowLimit | HighLimit     | %RPD | RPDLimit | Qual |
|                |                |                |              |             |            |          |               |      |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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# Q

| QC SUMMARY REPORT                            |  |
|--|--|
| Hall Environmental Analysis Laboratory, Inc. |  |

WO#: 1607128

20-Aug-16

| <b>Client:</b>  | Enterprise     | e Field Se | ervices   |           |             |            |           |               |           |          |      |
|-----------------|----------------|------------|-----------|-----------|-------------|------------|-----------|---------------|-----------|----------|------|
| <b>Project:</b> | Trunk MI       | D 16 Inch  | l I       |           |             |            |           |               |           |          |      |
|                 |                | 0          | T         |           | Tee         | 10 . day 5 |           |               |           |          |      |
| Sample ID       | MB-26285       | Samp       | Type: MI  | SLK       | Tes         |            | PA 6010B: | lotal Recover | able Meta | 115      |      |
| Client ID:      | PBW            | Bato       | :n ID: 26 | 285       | 1           | KUNNO: 3   | 35523     |               |           |          |      |
| Prep Date:      | 7/7/2016       | Analysis   | Date: 7   | 8/2016    |             | SeqNo: 1   | 1099961   | Units: mg/L   |           |          |      |
| Analyte         |                | Result     | PQL       | SPK value | SPK Ref Val | %REC       | LowLimit  | HighLimit     | %RPD      | RPDLimit | Qual |
| Arsenic         |                | ND         | 0.020     |           |             |            |           |               |           |          |      |
| Barium          |                | ND         | 0.020     |           |             |            |           |               |           |          |      |
| Cadmium         |                | ND         | 0.0020    |           |             |            |           |               |           |          |      |
| Calcium         |                | ND         | 1.0       |           |             |            |           |               |           |          |      |
| Chromium        |                | ND         | 0.0060    |           |             |            |           |               |           |          |      |
| L               |                | ND         | 0.0050    |           |             |            |           |               |           |          |      |
| Magnesium       |                | ND         | 1.0       |           |             |            |           |               |           |          |      |
| Potassium       |                | ND         | 1.0       |           |             |            |           |               |           |          |      |
| Selenium        |                | ND         | 0.050     |           |             |            |           |               |           |          |      |
| Silver          |                | ND         | 0.0050    |           |             |            |           |               |           |          |      |
| Sodium          |                | ND         | 1.0       |           |             |            |           |               |           |          |      |
| Sample ID       | LCS-26285      | Samp       | Type: LC  | s         | Tes         | tCode: E   | PA 6010B: | Total Recover | able Meta | Is       |      |
| Client ID:      | LCSW           | Bato       | h ID: 26  | 285       | F           | RunNo: 3   | 35523     |               |           |          |      |
| Prep Date:      | 7/7/2016       | Analysis   | Date: 7   | 8/2016    | 5           | SeqNo: 1   | 099962    | Units: mg/L   |           |          |      |
| Analyte         |                | Result     | PQL       | SPK value | SPK Ref Val | %REC       | LowLimit  | HighLimit     | %RPD      | RPDLimit | Qual |
| A c             |                | 0.42       | 0.020     | 0.5000    | 0           | 84.9       | 80        | 120           |           |          |      |
| um              |                | 0.41       | 0.020     | 0.5000    | 0           | 82.6       | 80        | 120           |           |          |      |
| Cadmium         |                | 0.42       | 0.0020    | 0.5000    | 0           | 83.5       | 80        | 120           |           |          |      |
| Calcium         |                | 41         | 1.0       | 50.00     | 0           | 82.3       | 80        | 120           |           |          |      |
| Chromium        |                | 0.41       | 0.0060    | 0.5000    | 0           | 82.9       | 80        | 120           |           |          |      |
| Lead            |                | 0.41       | 0.0050    | 0.5000    | 0           | 82.5       | 80        | 120           |           |          |      |
| Magnesium       |                | 41         | 1.0       | 50.00     | 0           | 81.4       | 80        | 120           |           |          |      |
| Potassium       |                | 40         | 1.0       | 50.00     | 0           | 80.4       | 80        | 120           |           |          |      |
| Selenium        |                | 0.43       | 0.050     | 0.5000    | 0           | 86.2       | 80        | 120           |           |          |      |
| Silver          |                | 0.083      | 0.0050    | 0.1000    | 0           | 83.2       | 80        | 120           |           |          |      |
| Sodium          |                | 38         | 1.0       | 50.00     | 0           | 76.6       | 80        | 120           |           |          | S    |
| Sample ID       | 1607128-001CMS | Samp       | Туре: М   | 5         | Tes         | tCode: E   | PA 6010B: | Total Recover | able Meta | Is       |      |
| Client ID:      | Rupture #6     | Bato       | h ID: 26  | 285       | F           | RunNo: 3   | 5523      |               |           |          |      |
| Prep Date:      | 7/7/2016       | Analysis   | Date: 7/  | 8/2016    | 5           | SeqNo: 1   | 099983    | Units: mg/L   |           |          |      |
| Analyte         |                | Result     | PQL       | SPK value | SPK Ref Val | %REC       | LowLimit  | HighLimit     | %RPD      | RPDLimit | Qual |
| Arsenic         |                | 0.46       | 0.020     | 0.5000    | 0.01055     | 90.8       | 75        | 125           |           |          |      |
| Barium          |                | 0.71       | 0.020     | 0.5000    | 0.2516      | 90.8       | 75        | 125           |           |          |      |
| Cadmium         |                | 0.45       | 0.0020    | 0.5000    | 0           | 90.4       | 75        | 125           |           |          |      |
| Calcium         |                | 90         | 1.0       | 50.00     | 44.00       | 91.5       | 75        | 125           |           |          |      |
| Chromium        |                | 0.46       | 0.0060    | 0.5000    | 0.004670    | 90.5       | 75        | 125           |           |          |      |
| l               |                | 0.45       | 0.0050    | 0.5000    | 0           | 90.1       | 75        | 125           |           |          |      |
| Qualifiers:     |                |            |           |           |             |            |           |               |           |          |      |

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range E

J Analyte detected below quantitation limits

- Р Sample pH Not In Range
- RL Reporting Detection Limit

Sample container temperature is out of limit as specified W

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# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

### Client: Enterprise Field Services

Project: Trunk MD 16 Inch

| Sample ID  | 1607128-001CMS | SampType: MS TestCode: EPA 6010B: Total Recoverable Metals |          |           |                            |              |          |           |      |          |      |  |  |  |
|------------|----------------|--|----------|-----------|----------------------------|--------------|----------|-----------|------|----------|------|--|--|--|
| Client ID: | Rupture #6     | Bato   | h ID: 26 | 285       | F                          | RunNo: 35523 |          |           |      |          |      |  |  |  |
| Prep Date: | 7/7/2016       | Analysis I   | Date: 7/ | 8/2016    | SeqNo: 1099983 Units: mg/L |              |          |           |      |          |      |  |  |  |
| Analyte    |                | Result   | PQL      | SPK value | SPK Ref Val                | %REC         | LowLimit | HighLimit | %RPD | RPDLimit | Qual |  |  |  |
| Magnesium  |                | 53   | 1.0      | 50.00     | 7.794                      | 90.2         | 75       | 125       |      |          |      |  |  |  |
| Potassium  |                | 64   | 1.0      | 50.00     | 19.09                      | 89.4         | 75       | 125       |      |          |      |  |  |  |
| Selenium   |                | 0.44   | 0.050    | 0.5000    | 0                          | 88.6         | 75       | 125       |      |          |      |  |  |  |
| Silver     |                | 0.090  | 0.0050   | 0.1000    | 0                          | 90.3         | 75       | 125       |      |          |      |  |  |  |
| Sodium     |                | 61   | 1.0      | 50.00     | 18.00                      | 86.0         | 75       | 125       |      |          |      |  |  |  |

| Sample ID  | 1607128-001CMSE | Samp       | Type: MS | SD        | TestCode: EPA 6010B: Total Recoverable Metals |          |          |             |       |          |      |  |  |
|------------|-----------------|------------|----------|-----------|---|----------|----------|-------------|-------|----------|------|--|--|
| Client ID: | Rupture #6      | Bato       | h ID: 26 | 285       | F   | RunNo: 3 | 5523     |             |       |          |      |  |  |
| Prep Date: | 7/7/2016        | Analysis I | Date: 7/ | 8/2016    | S   | SeqNo: 1 | 099984   | Units: mg/L |       |          |      |  |  |
| Analyte    |                 | Result     | PQL      | SPK value | SPK Ref Val                                   | %REC     | LowLimit | HighLimit   | %RPD  | RPDLimit | Qual |  |  |
| Arsenic    |                 | 0.48       | 0.020    | 0.5000    | 0.01055                                       | 94.3     | 75       | 125         | 3.69  | 20       |      |  |  |
| Barium     |                 | 0.73       | 0.020    | 0.5000    | 0.2516  | 95.1     | 75       | 125         | 3.06  | 20       |      |  |  |
| Cadmium    |                 | 0.46       | 0.0020   | 0.5000    | 0   | 92.5     | 75       | 125         | 2.27  | 20       |      |  |  |
| Calcium    |                 | 92         | 1.0      | 50.00     | 44.00   | 95.7     | 75       | 125         | 2.32  | 20       |      |  |  |
| Chromium   |                 | 0.47       | 0.0060   | 0.5000    | 0.004670                                      | 92.4     | 75       | 125         | 2.13  | 20       |      |  |  |
| l          |                 | 0.46       | 0.0050   | 0.5000    | 0   | 92.1     | 75       | 125         | 2.17  | 20       |      |  |  |
| Magnesium  |                 | 54         | 1.0      | 50.00     | 7,794   | 91.5     | 75       | 125         | 1.29  | 20       |      |  |  |
| Potassium  |                 | 65         | 1.0      | 50.00     | 19.09   | 92.3     | 75       | 125         | 2.29  | 20       |      |  |  |
| Selenium   |                 | 0.45       | 0.050    | 0.5000    | 0   | 89.7     | 75       | 125         | 1.26  | 20       |      |  |  |
| Silver     |                 | 0.092      | 0.0050   | 0.1000    | 0   | 92.4     | 75       | 125         | 2.29  | 20       |      |  |  |
| Sodium     |                 | 61         | 1.0      | 50.00     | 18.00   | 86.7     | 75       | 125         | 0.582 | 20       |      |  |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1607128

20-Aug-16

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| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY   | itali Environmental<br>Alba<br>TEL: 505-345-3975<br>Website: www.hal | Analysis Laborate<br>4991 Hawkins i<br>querque, NM 871<br>FAX: 505-345-41<br>llenviroamental ci | <sup>2019</sup><br><sup>101</sup><br><sup>102</sup><br><sup>103</sup> | ble Log-In Cl                     | neck List         |
|---|--|---|---|-----------------------------------|-------------------|
| Client Name: Enterprise   | Work Order Number  | 1607128   |   | ReptNo                            | 1                 |
| Received by/date  | ortalis  |   |   |                                   |                   |
| Logged By: Lindsay Mangin   | 7/6/2016 7:35:00 AM  |   | Juligo  |                                   |                   |
| Completed By: Lindsay Mangin  | 7/6/2018 8:53:18 AM  |   | Julipo  |                                   |                   |
| Reviewed By:  | 07/06/16   |   |   |                                   |                   |
| Chain of Custody  |  |   |   |                                   |                   |
| 1. Custody seals intact on sample bottles?  |  | Yes   | No  | Not Present 🗹                     |                   |
| 2. Is Chain of Custody complete?  |  | Yes 🗹   | No  | Not Present                       |                   |
| 3. How was the sample delivered?  |  | Courier   |   |                                   |                   |
| Log In  |  |   |   |                                   |                   |
| 4. Was an attempt made to cool the samples  | ?  | Yes 🗹   | No  | NA                                |                   |
| 5. Were all samples received at a temperature   | e of >0° C to 6.0°C  | Yes 🖌   | No  | NA                                |                   |
| 6. Sample(s) in proper container(s)?  |  | Yes 🗹   | No  |                                   |                   |
| 7. Sufficient sample volume for indicated test(   | s)?  | Yes 🖌   | No  |                                   |                   |
| 8. Are samples (except VOA and ONG) prope   | rly preserved?   | Yes   | No  |                                   |                   |
| 9. Was preservative added to bottles?   |  | Yes   | No 🗹  | NA                                |                   |
| 10. VOA vials have zero headspace?  |  | Yes 🗹   | No  | No VOA Vials                      |                   |
| 11. Were any sample containers received brok  | en?  | Yes   | No ⊻  | # of preserved<br>bottles checked | 1                 |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)                   |  | Yes 🖌   | No  | for pH:                           | >12 unless noted) |
| 13. Are matrices correctly identified on Chain of   | f Custody?   | Yes 🗹   | No  | Adjusted?                         | po                |
| 14. Is it clear what analyses were requested?   |  | Yes 🗹   | No  | Checked by:                       | ar                |
| (If no, notify customer for authorization.)   |  | Yes 🗹   | NO (  | Checked by.                       |                   |
| Special Handling (if applicable)  |  |   |   | _                                 |                   |
| 16. Was client notified of all discrepancies with   | this order?  | Yes   | No  | NA 🗹                              |                   |
| Person Notified:  | Date   |   |   |                                   |                   |
| By Whom:  | Via: [   | eMail Pt  | none Fax  | In Person                         |                   |
| Client Instructions:  |  |   |   |                                   |                   |
| 17. Additional remarks:   |  |   |   |                                   |                   |
| 18 Cooler Information   |  |   |   |                                   |                   |
| Cooler No         Temp °C         Condition         S           1         1.0         Good         Ye | eal Intact   Seal No   S<br>s  | Geal Date   | Signed By   |                                   |                   |
| Page   of   |  |   |   |                                   |                   |

| ter Time: Relipcifshed by  | The Time Relinquished by |  |  |  |  | -16 113 Later Rapture H6 | ate Time Matrix Sample Request ID   | EDD (Type)   | NELAP Cother             | creditation   | Standard  Level 4 (Full Validation)                   | iail or Fax#: Eylongeopod.com              | one # SoS - Sm . 33% | contraction in responsible         | iling Address: 6 14 Roiny Ave.          |                           | ent Entripose Pladuets | Chain-of-Custody Record |
|--|--------------------------|--|--|--|--|--------------------------|---|--|--------------------------|---|---|--|----------------------|------------------------------------|---|---------------------------|------------------------|-------------------------|
| Received by Date The No.   | Mustudi hille Note Ine   |  |  |  |  | 2 HORD Hych/HMZ -M       | Container Preservative HEAL No.   | Sample Temperature: 1.0  | On Ice: X Yes INo        | Sampler: 75C  | Thomas being  | Project Manager:                           |                      | Project #:                         | Irunk 140 16 Inch                       | Project Name:             | Standard Mr Rush       | Turn-Around Time: 3 day |
| Mis possibility. Any sub-contracted data will be clearly notated on the analytical report. | Romarks:<br>7640 Linu &  |  |  |  |  |                          | BTEX + MT<br>BTEX + MT<br>TPH 8015E<br>TPH (Meth<br>EDB (Meth<br>PAH's (831<br>RCRA 8 Me<br>Anions (F,C<br>8081 Pestie<br>8260B (VO<br>8270 (Som<br>Cations | rBE<br>rBE<br>3 (Gi<br>od 4<br>od 5<br>0 or<br>etak<br>Cl,Ni<br>cide<br>A)<br>i VC | + TT<br>+ T<br>RO<br>18. | MB <sup>1</sup><br>PH1<br>/ DF<br>1)<br>1)<br>70 \$<br>8082 | s (802<br>(Gas o<br>RC / M<br>SIMS)<br>PO4,S<br>PCB's | 1)<br>nly)<br>RO)<br>0 <sub>4</sub> )<br>3 | Analysis Request     | Tel. 505-345-3975 Fax 505-345-4107 | 4901 Hawkins NE - Albuquerque, NM 87109 | www.hallenvironmental.ccm | ANALYSIS LABORATORY    | HALL ENVIRONMENTAL      |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 25, 2016

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

RE: Trunk MD 16" Hydro

OrderNo.: 1607412

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/9/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 18, 2016.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 7/25/2016

# Hall Environmental Analysis Laboratory, Inc.

| Analyses |                    | Result  | PQL  | Qual Units  | <b>DF</b> Date Analyzed    | Batch |
|----------|--------------------|---------|------|-------------|----------------------------|-------|
| Lab ID:  | 1607412-001        | Matrix: | SOIL | Received    | Date: 7/9/2016 11:08:00 AM |       |
| Project: | Trunk MD 16" Hydro |         |      | Collection  | Date: 7/8/2016 3:15:00 PM  |       |
| CLIENT:  | APEX TITAN         |         |      | Client Samp | ole ID: HP-1               |       |

| EPA METHOD 300.0: ANIONS           |        |        |       |    | Analyst:             | MRA   |
|------------------------------------|--------|--------|-------|----|----------------------|-------|
| Chloride                           | ND     | 30     | mg/Kg | 20 | 7/21/2016 9:57:57 AM | 26529 |
| EPA METHOD 8015M/D: DIESEL RANGE O | ORGANI | CS     |       |    | Analyst:             | TOM   |
| Diesel Range Organics (DRO)        | ND     | 10     | mg/Kg | 1  | 7/12/2016 4:44:16 PM | 26331 |
| Surr: DNOP                         | 97.3   | 70-130 | %Rec  | 1  | 7/12/2016 4:44:16 PM | 26331 |
| EPA METHOD 8015D: GASOLINE RANGE   |        |        |       |    | Analyst:             | NSB   |
| Gasoline Range Organics (GRO)      | ND     | 5.0    | mg/Kg | 1  | 7/12/2016 4:39:50 PM | 26325 |
| Surr: BFB                          | 100    | 80-120 | %Rec  | 1  | 7/12/2016 4:39:50 PM | 26325 |
| EPA METHOD 8021B: VOLATILES        |        |        |       |    | Analyst:             | NSB   |
| Benzene                            | ND     | 0.025  | mg/Kg | 1  | 7/12/2016 4:39:50 PM | 26325 |
| Toluene                            | ND     | 0.050  | mg/Kg | 1  | 7/12/2016 4:39:50 PM | 26325 |
| Ethylbenzene                       | ND     | 0.050  | mg/Kg | 1  | 7/12/2016 4:39:50 PM | 26325 |
| Xylenes, Total                     | ND     | 0.10   | mg/Kg | 1  | 7/12/2016 4:39:50 PM | 26325 |
| Surr: 4-Bromofluorobenzene         | 96.3   | 80-120 | %Rec  | 1  | 7/12/2016 4:39:50 PM | 26325 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method    | Blank          |
|-------------|----|---|----|--|----------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |                |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 1 of 7    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | rage ror /     |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |                |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit | t as specified |
|             |    |   |    |  |                |

Date Reported: 7/25/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITANClient Sample ID: HP-2Project: Trunk MD 16" HydroCollection Date: 7/8/2016 3:25:00 PMLab ID: 1607412-002Matrix: SOILReceived Date: 7/9/2016 11:08:00 AM

| Analyses                         | Result | PQL Qu | al Units | DF | Date Analyzed         | Batch |
|----------------------------------|--------|--------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS         |        |        |          |    | Analyst               | MRA   |
| Chloride                         | ND     | 30     | mg/Kg    | 20 | 7/21/2016 10:35:11 AM | 26529 |
| EPA METHOD 8015M/D: DIESEL RANGI |        | 5      |          |    | Analyst:              | TOM   |
| Diesel Range Organics (DRO)      | ND     | 10     | mg/Kg    | 1  | 7/12/2016 5:06:10 PM  | 26331 |
| Surr: DNOP                       | 102    | 70-130 | %Rec     | 1  | 7/12/2016 5:06:10 PM  | 26331 |
| EPA METHOD 8015D: GASOLINE RANG  | E      |        |          |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND     | 4.8    | mg/Kg    | 1  | 7/12/2016 5:03:21 PM  | 26325 |
| Surr: BFB                        | 99.2   | 80-120 | %Rec     | 1  | 7/12/2016 5:03:21 PM  | 26325 |
| EPA METHOD 8021B: VOLATILES      |        |        |          |    | Analyst:              | NSB   |
| Benzene                          | ND     | 0.024  | mg/Kg    | 1  | 7/12/2016 5:03:21 PM  | 26325 |
| Toluene                          | ND     | 0.048  | mg/Kg    | 1  | 7/12/2016 5:03:21 PM  | 26325 |
| Ethylbenzene                     | ND     | 0.048  | mg/Kg    | 1  | 7/12/2016 5:03:21 PM  | 26325 |
| Xylenes, Total                   | ND     | 0.096  | mg/Kg    | 1  | 7/12/2016 5:03:21 PM  | 26325 |
| Surr: 4-Bromofluorobenzene       | 94.4   | 80-120 | %Rec     | 1  | 7/12/2016 5:03:21 PM  | 26325 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 2 of 7    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |

Date Reported: 7/25/2016

# Hall Environmental Analysis Laboratory, Inc.

| Lab ID:  | 1607412-003        | Matrix:                | SOIL | Received   | Date: 7/9/2016 11:08:00 AM |  |  |  |
|----------|--------------------|------------------------|------|------------|----------------------------|--|--|--|
| Project: | Trunk MD 16" Hydro |                        |      | Collection | Date: 7/8/2016 3:35:00 PM  |  |  |  |
| CLIENT:  | APEX TITAN         | Client Sample ID: HP-3 |      |            |                            |  |  |  |

| EPA METHOD 300.0: ANIONS         |          |        |       |    | Analyst:              | MRA   |
|----------------------------------|----------|--------|-------|----|-----------------------|-------|
| Chloride                         | ND       | 30     | mg/Kg | 20 | 7/21/2016 10:47:36 AM | 26529 |
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | 6      |       |    | Analyst:              | TOM   |
| Diesel Range Organics (DRO)      | ND       | 9.6    | mg/Kg | 1  | 7/12/2016 5:27:51 PM  | 26331 |
| Surr: DNOP                       | 100      | 70-130 | %Rec  | 1  | 7/12/2016 5:27:51 PM  | 26331 |
| EPA METHOD 8015D: GASOLINE RANGE |          |        |       |    | Analyst:              | NSB   |
| Gasoline Range Organics (GRO)    | ND       | 4.6    | mg/Kg | 1  | 7/12/2016 5:27:04 PM  | 26325 |
| Surr: BFB                        | 95.6     | 80-120 | %Rec  | 1  | 7/12/2016 5:27:04 PM  | 26325 |
| EPA METHOD 8021B: VOLATILES      |          |        |       |    | Analyst:              | NSB   |
| Benzene                          | ND       | 0.023  | mg/Kg | 1  | 7/12/2016 5:27:04 PM  | 26325 |
| Toluene                          | ND       | 0.046  | mg/Kg | 1  | 7/12/2016 5:27:04 PM  | 26325 |
| Ethylbenzene                     | ND       | 0.046  | mg/Kg | 1  | 7/12/2016 5:27:04 PM  | 26325 |
| Xylenes, Total                   | ND       | 0.092  | mg/Kg | 1  | 7/12/2016 5:27:04 PM  | 26325 |
| Surr: 4-Bromofluorobenzene       | 94.1     | 80-120 | %Rec  | 1  | 7/12/2016 5:27:04 PM  | 26325 |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 3 of 7    |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

WO#: 1607412

25-Jul-16

APEX TITAN **Client: Project:** Trunk MD 16" Hydro

| Sample ID MB-26529  | SampType: mblk   | TestCode: EPA Method  | 300.0: Anions                                   |                                       |
|---|--|---|---|---------------------------------------|
| Client ID: PBS  | Batch ID: 26529  | RunNo: 35903  |   |                                       |
| Prep Date: 7/21/2016  | Analysis Date: 7/21/2016   | SeqNo: 1111501  | Units: mg/Kg                                    |                                       |
| Analyte   | Result PQL SPK value   | SPK Ref Val %REC LowLimit   | HighLimit %RPD                                  | RPDLimit Qual                         |
| Chloride  | ND 15  |   |   |                                       |
|   | 1.0  |   |   |                                       |
| Sample ID LCS-26529   | SampType: Ics  | TestCode: EPA Method  | 300.0: Anions                                   |                                       |
| Sample ID LCS-26529<br>Client ID: LCSS                                    | SampType: Ics<br>Batch ID: 26529   | TestCode: EPA Method<br>RunNo: 35903  | 300.0: Anions                                   | · · · · · · · · · · · · · · · · · · · |
| Sample ID LCS-26529<br>Client ID: LCSS<br>Prep Date: 7/21/2016            | SampType: Ics<br>Batch ID: 26529<br>Analysis Date: 7/21/2016                         | TestCode: EPA Method<br>RunNo: 35903<br>SeqNo: 1111502                              | 300.0: Anions<br>Units: mg/Kg                   |                                       |
| Sample ID LCS-26529<br>Client ID: LCSS<br>Prep Date: 7/21/2016<br>Analyte | SampType: Ics<br>Batch ID: 26529<br>Analysis Date: 7/21/2016<br>Result PQL SPK value | TestCode: EPA Method<br>RunNo: 35903<br>SeqNo: 1111502<br>SPK Ref Val %REC LowLimit | 300.0: Anions<br>Units: mg/Kg<br>HighLimit %RPD | RPDLimit Qual                         |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

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WO#: 1607412

25-Jul-16

| Client:    | APE            | <b>K TITAN</b> |                 |           |   |          |           |             |           |            |      |
|------------|----------------|----------------|-----------------|-----------|---|----------|-----------|-------------|-----------|------------|------|
| Project:   | Trunk          | MD 16" Hyd     | ro              |           |   |          |           |             |           |            |      |
| Sample ID  | LCS-26331      | SampType: LCS  |                 |           | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |           |             |           |            |      |
| Client ID: | LCSS           | Batch          | Batch ID: 26331 |           |   | unNo: 3  | 5611      |             |           |            |      |
| Prep Date: | 7/11/2016      | Analysis D     | ate: 7/         | 12/2016   | S   | eqNo: 1  | 102563    | Units: mg/k | (g        |            |      |
| Analyte    |                | Result         | PQL             | SPK value | SPK Ref Val   | %REC     | LowLimit  | HighLimit   | %RPD      | RPDLimit   | Qual |
| Range (    | Organics (DRO) | 50             | 10              | 50.00     | 0   | 100      | 62.6      | 124         |           |            |      |
| Surr: DNOP |                | 4.7            |                 | 5.000     |   | 93.8     | 70        | 130         |           |            |      |
| Sample ID  | MB-26331       | SampT          | ype: ME         | BLK       | Test  | Code: El | PA Method | 8015M/D: Di | esel Rang | e Organics |      |
| Client ID: | PBS            | Batch          | D: 26           | 331       | R   | unNo: 3  | 5611      |             |           |            |      |
| Prep Date: | 7/11/2016      | Analysis D     | ate: 7/         | 12/2016   | S   | eqNo: 1  | 102564    | Units: mg/k | (g        |            |      |
| Analyte    |                | Result         | PQL             | SPK value | SPK Ref Val   | %REC     | LowLimit  | HighLimit   | %RPD      | RPDLimit   | Qual |
| I Range (  | Organics (DRO) | ND             | 10              |           |   |          |           |             |           |            |      |
| Surr: DNOP |                | 9.0            |                 | 10.00     |   | 90.2     | 70        | 130         |           |            |      |

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

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| QC   | SUMMARY I     | REPOR    | Г           |      |
|------|---------------|----------|-------------|------|
| Hall | Environmental | Analysis | Laboratory, | Inc. |

WO#: 1607412

25-Jul-16

| Client:   | APEX TI   | TAN  |   |   |  |   |   |  |                                    |                                      |      |
|---|---|--|---|---|--|---|---|--|------------------------------------|--------------------------------------|------|
| Project:  | Trunk MI  | D 16" Hyd  | ro  |   |  |   |   |  |                                    |                                      | *    |
| Sample ID   | MB-26325  | SampT  | ype: MI   | BLK   | Test   | Code: El  | PA Method   | 8015D: Gaso  | line Rang                          | e                                    |      |
| Client ID:  | PBS   | Batch  | n ID: 26  | 325   | R  | unNo: 3   | 5619  |  |                                    |                                      |      |
| Prep Date:  | 7/11/2016   | Analysis D   | ate: 7  | 12/2016   | S  | eqNo: 1   | 102390  | Units: mg/k  | g                                  |                                      |      |
| Analyte   |   | Result   | PQL   | SPK value   | SPK Ref Val  | %REC  | LowLimit  | HighLimit  | %RPD                               | RPDLimit                             | Qual |
| Gasoline Rang   | ge Organics (GRO)   | ND   | 5.0   |   |  |   |   |  |                                    |                                      |      |
| Surr: BFB   |   | 950  |   | 1000  |  | 94.7  | 80  | 120  |                                    |                                      |      |
| Sample ID         LCS-26325         SampType:         LCS         TestCode:         EPA Method 8015D:         Gasoline Range                        |   |  |   |   |  |   |   |  |                                    |                                      |      |
| Client ID:  | LCSS  | Batch  | n ID: 26  | 325   | R  | unNo: 3   | 5619  |  |                                    |                                      |      |
| Prep Date:  | 7/11/2016   | Analysis D   | ate: 7  | 12/2016   | S  | eqNo: 1   | 102391  | Units: mg/M  | g                                  |                                      |      |
| Analyte   |   | Result   | PQL   | SPK value   | SPK Ref Val  | %REC  | LowLimit  | HighLimit  | %RPD                               | RPDLimit                             | Qual |
| Gasoline Rang   | ge Organics (GRO)   | 26   | 5.0   | 25.00   | 0  | 103   | 80  | 120  |                                    |                                      |      |
| Surr: BFB   |   | 1000   |   | 1000  |  | 105   | 80  | 120  |                                    |                                      |      |
|   |   |  |   |   |  |   | PA Method   | 8015D: Gaso  | line Rang                          |                                      |      |
| Sample ID   | 1607412-002AMS  | SampT  | ype: M:   | 160/412-002AWS SampType. MS   |  |   | Ameulou   |  | inte rung                          | e                                    |      |
| Sample ID<br>Client ID:   | 1607412-002AMS<br>HP-2  | SampT<br>Batch   | ype: M:<br>1D: 26   | 325   | R  | unNo: 3   | 5619  |  | inte rung                          | e                                    |      |
| Sample ID<br>Client ID:<br>Prep Date:   | 1607412-002AMS<br>HP-2<br>7/11/2016   | Samp T<br>Batch<br>Analysis D  | ype: M:<br>n ID: 26<br>pate: 7/   | 325<br>12/2016  | R  | unNo: 3<br>eqNo: 1  | 5619<br>102394  | Units: mg/k  | ig                                 | e                                    |      |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte  | 1607412-002AMS<br>HP-2<br>7/11/2016   | Samp T<br>Batch<br>Analysis D<br>Result  | ype: M3<br>n ID: 26<br>pate: 7/<br>PQL  | 325<br>12/2016<br>SPK value   | R<br>SPK Ref Val                                       | unNo: 3<br>eqNo: 1<br>%REC  | 5619<br>102394<br>LowLimit  | Units: <b>mg/K</b><br>HighLimit  | íg<br>%RPD                         | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang   | 1607412-002AMS<br>HP-2<br>7/11/2016<br>ge Organics (GRO)  | SampT<br>Batch<br>Analysis D<br>Result<br>27   | ype: M3<br>n ID: 26<br>Pate: 7/<br>PQL<br>4.8   | 325<br>12/2016<br>SPK value<br>23.83  | R<br>SPK Ref Val<br>0                                  | anNo: 3<br>aqNo: 1<br>%REC<br>115   | 5619<br>102394<br>LowLimit<br>59.3  | Units: mg/k<br>HighLimit<br>143  | %<br>%RPD                          | RPDLimit                             | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB  | 1607412-002AMS<br>HP-2<br>7/11/2016<br>ge Organics (GRO)  | Samp T<br>Batch<br>Analysis D<br>Result<br>27<br>1100  | ype: M3<br>n ID: 26<br>Pate: 7/<br>PQL<br>4.8   | 325<br>12/2016<br>SPK value<br>23.83<br>953.3   | R<br>S<br>SPK Ref Val<br>0                             | aunNo: 3<br>aeqNo: 1<br><u>%REC</u><br>115<br>111   | 5619<br>102394<br>LowLimit<br>59.3<br>80  | Units: <b>mg/K</b><br>HighLimit<br>143<br>120  | g<br>%RPD                          | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID   | 1607412-002AMS<br>HP-2<br>7/11/2016<br>ge Organics (GRO)<br>1607412-002AMSE   | Samp T<br>Batch<br>Analysis D<br>Result<br>27<br>1100<br>D Samp T  | ype: M3<br>n ID: 26<br>pate: 7/<br>PQL<br>4.8   | 325<br>325<br>12/2016<br>SPK value<br>23.83<br>953.3<br>3D                                  | R<br>SPK Ref Val<br>0<br>Test                          | kunNo: 3<br>keqNo: 1<br>%REC<br>115<br>111<br>Code: EF  | 5619<br>102394<br>LowLimit<br>59.3<br>80<br>PA Method                                       | Units: mg/K<br>HighLimit<br>143<br>120<br>8015D: Gaso                                    | g<br>%RPD                          | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID<br>Client ID:   | 1607412-002AMS<br>HP-2<br>7/11/2016<br>ge Organics (GRO)<br>1607412-002AMSE<br>HP-2                                 | Samp T<br>Batch<br>Analysis D<br>Result<br>27<br>1100<br>D SampT<br>Batch                                | ype: M3<br>n ID: 26<br>pate: 7/<br>PQL<br>4.8<br>ype: M3<br>n ID: 26                    | 325<br>12/2016<br>23.83<br>953.3<br>35D<br>325  | R<br>SPK Ref Val<br>0<br>Test                          | kunNo: 3<br>keqNo: 1<br>%REC<br>115<br>111<br>Code: EF  | 5619<br>102394<br>LowLimit<br>59.3<br>80<br>PA Method<br>5619                               | Units: mg/K<br>HighLimit<br>143<br>120<br>8015D: Gaso                                    | ine Rang                           | e<br>RPDLimit                        | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID<br>Client ID:<br>Prep Date:                             | 1607412-002AMS<br>HP-2<br>7/11/2016<br>e Organics (GRO)<br>1607412-002AMSE<br>HP-2<br>7/11/2016                     | Samp T<br>Batch<br>Analysis D<br>Result<br>27<br>1100<br>D Samp T<br>Batch<br>Analysis D                 | ype: M3<br>n ID: 26<br>pate: 7/<br>PQL<br>4.8<br>ype: M3<br>n ID: 26<br>pate: 7/        | 325<br>12/2016<br>SPK value<br>23.83<br>953.3<br>SD<br>325<br>12/2016                       | R<br>SPK Ref Val<br>0<br>Test<br>R<br>S                | 2000c: 21<br>200No: 3<br>200No: 1<br>200No: 1<br>200No: 1<br>200No: 3<br>200No: 1<br>200No: 1<br>20 | 5619<br>102394<br>LowLimit<br>59.3<br>80<br>PA Method<br>5619<br>102395                     | Units: mg/K<br>HighLimit<br>143<br>120<br>8015D: Gaso<br>Units: mg/K                     | g<br>%RPD<br>line Rang             | e<br>RPDLimit<br>e                   | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte                  | 1607412-002AMS<br>HP-2<br>7/11/2016<br>ge Organics (GRO)<br>1607412-002AMSE<br>HP-2<br>7/11/2016                    | Samp T<br>Batch<br>Analysis D<br>Result<br>27<br>1100<br>D Samp T<br>Batch<br>Analysis D<br>Result       | ype: MS<br>a ID: 26<br>bate: 7/<br>PQL<br>4.8<br>ype: MS<br>a ID: 26<br>bate: 7/<br>PQL | 325<br>12/2016<br>23.83<br>953.3<br>30<br>325<br>12/2016<br>SPK value                       | R<br>SPK Ref Val<br>0<br>Test<br>R<br>SPK Ref Val      | 2000c: 21<br>200No: 34<br>200No: 11<br>200No: 11<br>200No: 34<br>200No: 11<br>200No: 11<br>200No: 11  | 5619<br>102394<br>LowLimit<br>59.3<br>80<br>PA Method<br>5619<br>102395<br>LowLimit         | Units: mg/K<br>HighLimit<br>143<br>120<br>8015D: Gaso<br>Units: mg/K<br>HighLimit        | ine Rang                           | e<br>RPDLimit<br>e<br>RPDLimit       | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB<br>Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang | 1607412-002AMS<br>HP-2<br>7/11/2016<br>e Organics (GRO)<br>1607412-002AMSE<br>HP-2<br>7/11/2016<br>e Organics (GRO) | Samp T<br>Batch<br>Analysis D<br>Result<br>27<br>1100<br>D Samp T<br>Batch<br>Analysis D<br>Result<br>27 | ype: MS<br>1D: 26<br>ate: 7/<br>PQL<br>4.8<br>1D: 26<br>ate: 7/<br>PQL<br>4.9           | 325<br>12/2016<br>SPK value<br>23.83<br>953.3<br>30<br>325<br>12/2016<br>SPK value<br>24.32 | R<br>SPK Ref Val<br>0<br>Test<br>R<br>SPK Ref Val<br>0 | 2000c: 21<br>200No: 34<br>200No: 11<br>200No: 11<br>200No: 34<br>200No: 11<br>200No:  | 5619<br>102394<br>LowLimit<br>59.3<br>80<br>PA Method<br>5619<br>102395<br>LowLimit<br>59.3 | Units: mg/K<br>HighLimit<br>143<br>120<br>8015D: Gaso<br>Units: mg/K<br>HighLimit<br>143 | iline Rang<br>%RPD<br>%RPD<br>2.93 | e<br>RPDLimit<br>e<br>RPDLimit<br>20 | Qual |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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| Hall En        | vironmenta     | al Anal    | ysis I   | Laborat   | ory, Inc.                             |          |           |             |       |          | 25-Jul-16 |
|----------------|----------------|------------|----------|-----------|---------------------------------------|----------|-----------|-------------|-------|----------|-----------|
| Client:        | APEX TI        | TAN        |          |           |                                       |          |           |             |       |          |           |
| Project:       | Trunk M        | D 16" Hyo  | dro      |           |                                       |          |           |             |       |          |           |
| Sample ID      | MB-26325       | Samp       | Туре: МІ | BLK       | Tes                                   | tCode: E | PA Method | 8021B: Vola | tiles |          |           |
| Client ID:     | PBS            | Batc       | h ID: 26 | 325       | F                                     | RunNo: 3 | 35619     |             |       |          |           |
| Prep Date:     | 7/11/2016      | Analysis [ | Date: 7  | 12/2016   | 5                                     | SeqNo: 1 | 102416    | Units: mg/l | ٨g    |          |           |
| Analyte        |                | Result     | PQL      | SPK value | SPK Ref Val                           | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual      |
| Benzene        |                | ND         | 0.025    |           |                                       |          |           |             |       |          |           |
| Toluene        |                | ND         | 0.050    |           |                                       |          |           |             |       |          |           |
| Ethylbenzene   |                | ND         | 0.050    |           |                                       |          |           |             |       |          |           |
| ) es, Total    |                | ND         | 0.10     |           |                                       |          |           |             |       |          |           |
| Surr: 4-Brom   | ofluorobenzene | 0.91       |          | 1.000     |                                       | 91.2     | 80        | 120         |       |          |           |
| Sample ID      | LCS-26325      | Samp       | Type: LC | s         | Tes                                   | tCode: E | PA Method | 8021B: Vola | tiles |          |           |
| Client ID:     | LCSS           | Batc       | h ID: 26 | 325       | F                                     | RunNo: 3 | 5619      |             |       |          |           |
| Prep Date:     | 7/11/2016      | Analysis [ | Date: 7  | 12/2016   | 5                                     | SeqNo: 1 | 102417    | Units: mg/l | ٢g    |          |           |
| Analyte        |                | Result     | PQL      | SPK value | SPK Ref Val                           | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual      |
| Benzene        |                | 0.97       | 0.025    | 1.000     | 0                                     | 96.6     | 75.3      | 123         |       |          |           |
| Toluene        |                | 0.95       | 0.050    | 1.000     | 0                                     | 95.5     | 80        | 124         |       |          |           |
| Ethylbenzene   |                | 0.99       | 0.050    | 1.000     | 0                                     | 99.3     | 82.8      | 121         |       |          |           |
| Xylenes, Total |                | 3.0        | 0.10     | 3.000     | 0                                     | 99.1     | 83.9      | 122         |       |          |           |
| Surr: 4-Brom   | ofluorobenzene | 0.97       |          | 1.000     |                                       | 97.0     | 80        | 120         |       |          |           |
| Sample ID      | 1607412-001AMS | Samp       | Гуре: М  | 8         | TestCode: EPA Method 8021B: Volatiles |          |           |             |       |          |           |
| Client ID:     | HP-1           | Batc       | h ID: 26 | 325       | F                                     | RunNo: 3 | 5619      |             |       |          |           |
| Prep Date:     | 7/11/2016      | Analysis [ | Date: 7  | 12/2016   | 5                                     | SeqNo: 1 | 102419    | Units: mg/l | (g    |          |           |
| Analyte        |                | Result     | PQL      | SPK value | SPK Ref Val                           | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual      |
| Benzene        |                | 0.98       | 0.023    | 0.9302    | 0                                     | 105      | 71.5      | 122         |       |          |           |
| Toluene        |                | 1.0        | 0.047    | 0.9302    | 0                                     | 109      | 71.2      | 123         |       |          |           |
| Ethylbenzene   |                | 1.1        | 0.047    | 0.9302    | 0                                     | 115      | 75.2      | 130         |       |          |           |
| ) →s, Total    |                | 3.2        | 0.093    | 2.791     | 0                                     | 115      | 72.4      | 131         |       |          |           |
| Surr: 4-Brom   | ofluorobenzene | 0.92       |          | 0.9302    |                                       | 98.8     | 80        | 120         |       |          |           |
| Sample ID      | 1607412-001AMS | D Samp1    | Гуре: М  | SD        | Tes                                   | tCode: E | PA Method | 8021B: Vola | tiles |          |           |
| Client ID:     | HP-1           | Batc       | h ID: 26 | 325       | F                                     | RunNo: 3 | 5619      |             |       |          |           |
| Prep Date:     | 7/11/2016      | Analysis [ | Date: 7/ | 12/2016   | 5                                     | eqNo: 1  | 102421    | Units: mg/H | ٢g    |          |           |
| Analyte        |                | Result     | PQL      | SPK value | SPK Ref Val                           | %REC     | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual      |
| Benzene        |                | 0.99       | 0.024    | 0.9690    | 0                                     | 102      | 71.5      | 122         | 1.52  | 20       |           |
| Toluene        |                | 0.98       | 0.048    | 0.9690    | 0                                     | 101      | 71.2      | 123         | 3.72  | 20       |           |
| Ethylbenzene   |                | 1.0        | 0.048    | 0.9690    | 0                                     | 108      | 75.2      | 130         | 2.07  | 20       |           |
| ≯ →s, Total    |                | 3.1        | 0.097    | 2.907     | 0                                     | 107      | 72.4      | 131         | 3.25  | 20       |           |
| Surr: 4-Brome  | ofluorobenzene | 0.95       |          | 0.9690    |                                       | 97.9     | 80        | 120         | 0     | 0        |           |

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

**QC SUMMARY REPORT** 

- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
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- Р Sample pH Not In Range
- RL **Reporting Detection Limit**

W Sample container temperature is out of limit as specified WO#: 1607412 -. . . .

| HALL FIGH ENVIR<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY TEL: 505-<br>Website | onmenia: Anarysis Laboraia<br>4901 Hawkins N<br>Albuquerque, NM 8716<br>345-3975 FAX: 505-345-416<br>:: www.hallenvironmental.co | 75<br>75<br>99 <b>Samj</b><br>97 | ple Log-In Check List                 |
|---|--|----------------------------------|---------------------------------------|
| Client Name: APEX AZTEC Work Order  | Number: 1607412  |                                  | RoptNo: 1                             |
| Received by/date.   | 16   |                                  |                                       |
| Logged By: Lindsay Mangin 7/9/2016 11:0   | 8:00 AM  | Julythigo                        | · · · ·                               |
| Completed By: Lindsay Mangin 7/9/2016 (12:5                                     | 0:37 PM  | Augo                             |                                       |
| Reviewed By: 1 07 0   | 2110   |                                  |                                       |
| Chain of Custody  | 1.6  |                                  |                                       |
| 1. Custody seals intact on sample bottles?                                      | Yes  | No                               | Not Present                           |
| 2. Is Chain of Custody complete?  | Yes 🖌  | No []                            | Not Present                           |
| 3. How was the sample delivered?  | Courier  |                                  |                                       |
| logh  |  |                                  |                                       |
| A Was as alterest made to easi the control of 2                                 | Man I  | No                               | NA                                    |
| <ul> <li>was an altempt made to cool the samples r</li> </ul>                   | Tes (*)  |                                  | here and                              |
| 5. Were all samples received at a temperature of >0° C to 6.0                   | o°C Yes ✔  | No                               | NA                                    |
| 6. Sample(s) in proper container(s)?  | Yes 🗹  | No                               |                                       |
| 7. Sufficient sample volume for indicated test(s)?                              | Yes 🖌  | No 🗌                             |                                       |
| 8. Are samples (except VOA and ONG) properly preserved?                         | Yes 🖌  | No                               |                                       |
| 9. Was preservative added to bottles?   | Yes  | No 🗹                             | NA                                    |
| 10. VOA vials have zero headspace?  | Yes  | No                               | No VOA Viels 🗹                        |
| 11. Were any sample containers received broken?                                 | Yes  | No 🗹                             | # of preserved                        |
| 12. Does paperwork match bottle labels?   | Yes 🖌  | No                               | for pH:                               |
| (Note discrepancies on chain of custody)  | Mar. 17  | No.                              | (<2 or >12 unless noted)<br>Adjusted? |
| 13. Are matrices correctly identified on Chain or Custody?                      | Yes M  | No                               |                                       |
| 15. Were all holding times able to be met?                                      | Yes 🗹  | No 🗌                             | Checked by.                           |
| (If no, notify customer for authorization.)                                     |  |                                  |                                       |
| 16. Was client notified of all discrepancies with this order?                   | Yes  | No                               | NA 🗹                                  |
| Person Notified:  | Date   |                                  |                                       |
| By Whom:  | Via: eMail Ph  | one Fax                          | In Person                             |
| Regarding   |  |                                  |                                       |
| Client Instructions:  |  |                                  |                                       |
| 17. Additional remarks:   |  |                                  |                                       |
| 18. Cooler Information  |  |                                  |                                       |
| Cooler No Temp *C Condition Seal Intact Sea                                     | I No Seal Date S   | Signed By                        |                                       |
| 1 3.3 Good Yes  |  | 1                                |                                       |
| Page 1 of 1   |  |                                  |                                       |

| APEX Laboratory: <u>Hall</u><br>Address: <u>AB&amp;; AV</u>   |                      | ANALYSIS<br>REQUESTED                       | Lab use only                 |
|---|----------------------|---|------------------------------|
| APEX Laboratory: Hall<br>Address: AB&; AK   |                      | REQUESTED / / /                             |                              |
| APEX Address:   | A                    |   |                              |
|   | n i                  |   |                              |
| Office Location (AUV)   |                      |   | when received (C°).          |
| Contact: A. Fren  | nano                 | 2/  |                              |
| Phone:  | 1000)                | 3   1                                       | Pageof                       |
| Project Manager 'KSi M.M. POISO #:  |                      | 3   |                              |
| Sampler's Name Sampler's Signature  |                      | H to b                                      |                              |
| Rome Develop  |                      |   |                              |
| Proj. No. Project Name No/Tvr   | vpe of Containers    | 1 5 2                                       |                              |
| TRUNK MD 16" Hydro  |                      | 2201  |                              |
| Matrix Date Time C G Identifying Marks of Samole(s) 55 5 5  |                      |   |                              |
|   | A- 2- 91             |   | Lab Sample ID (Lab Use Only) |
| S 78/16 1515 X HP-1   |                      | XXX   | 1607412-001                  |
| S 1 1525 X HP-2   | 1                    | XXX   | -02                          |
| S V 1535 X HP-3   | j                    | XXX   | -003                         |
|   |                      |   |                              |
|   |                      |   |                              |
|   |                      |   | -                            |
|   |                      |   |                              |
|   |                      |   |                              |
|   |                      |   | + + +                        |
|   |                      |   |                              |
| Turn around time \QAR Ormal Q 25% Rush Q 50% Rush Q 100% Rush   |                      |   |                              |
| Relinquished by (Signature) Date: Time: Received by (Signature)   | Date:                | Time: NOTES:                                |                              |
| Relinduished by (Signature) Date:   Time: / Received by (Signature)   | 7/8/16<br>Datet      | Jatet Time: Bill to Tom Luny EPROD          |                              |
| 11. Water 7/8/10 1857 V Det   | 07/05/12             | 1108  |                              |
| Relinquished by (Signature) Date: Time: Received by (Signature)   | Date:                | Time:                                       |                              |
| Relinquished by (Signature) Date: Time: Received by: (Signature)  | Date:                | Time:                                       |                              |
|   |                      |   | <u></u>                      |
| viatinx v/W - Wastewater W - Water S - Soil SD - Soild L - Liquid A -<br>Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass w | wide mouth P/O - Pla | coal tube SL - sludge O -<br>astic or other |                              |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204


Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 28, 2016

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

RE: Trunk MD 16" Hydro

OrderNo.: 1607562

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/12/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1607562

Date Reported: 7/28/2016

# Hall Environmental Analysis Laboratory, Inc.

| CLIENT: APEX TITAN                | Client Sample ID: CP-1 |        |                   |  |                       |       |  |  |  |
|-----------------------------------|------------------------|--------|-------------------|--|-----------------------|-------|--|--|--|
| Project: Trunk MD 16" Hydro       |                        |        | <b>Collection</b> | Collection Date: 7/11/2016 12:30:00 PM |                       |       |  |  |  |
| Lab ID: 1607562-001               | Matrix:                | SOIL   | Received D        | Date: 7/1                              | 2/2016 7:50:00 AM     |       |  |  |  |
| Analyses                          | Result                 | PQL Qu | ual Units         | DF                                     | Date Analyzed         | Batch |  |  |  |
| EPA METHOD 300.0: ANIONS          |                        |        |                   |  | Analyst               | LGT   |  |  |  |
| Fluoride                          | 0.71                   | 0.30   | mg/Kg             | 1                                      | 7/15/2016 2:48:45 PM  | 26445 |  |  |  |
| Chloride                          | 3.4                    | 1.5    | mg/Kg             | 1                                      | 7/15/2016 2:48:45 PM  | 26445 |  |  |  |
| Nitrogen, Nitrite (As N)          | ND                     | 0.30   | mg/Kg             | 1                                      | 7/15/2016 2:48:45 PM  | 26445 |  |  |  |
| Bromide                           | ND                     | 0.30   | mg/Kg             | 1                                      | 7/15/2016 2:48:45 PM  | 26445 |  |  |  |
| Nitrogen, Nitrate (As N)          | 0.84                   | 0.30   | mg/Kg             | 1                                      | 7/15/2016 2:48:45 PM  | 26445 |  |  |  |
| Phosphorus, Orthophosphate (As P) | ND                     | 1.5    | mg/Kg             | 1                                      | 7/15/2016 2:48:45 PM  | 26445 |  |  |  |
| Sulfate                           | 17                     | 1.5    | mg/Kg             | 1                                      | 7/15/2016 2:48:45 PM  | 26445 |  |  |  |
| EPA METHOD 6010B: SOIL METALS     |                        |        |                   |  | Analyst               | MED   |  |  |  |
| Calcium                           | 1900                   | 50     | mg/Kg             | 2                                      | 7/14/2016 10:33:33 AM | 26385 |  |  |  |
| Magnesium                         | 1100                   | 50     | mg/Kg             | 2                                      | 7/14/2016 10:33:33 AM | 26385 |  |  |  |
| Potassium                         | 730                    | 100    | mg/Kg             | 2                                      | 7/14/2016 10:33:33 AM | 26385 |  |  |  |
| Sodium                            | ND                     | 50     | mg/Kg             | 2                                      | 7/14/2016 10:33:33 AM | 26385 |  |  |  |
| EPA METHOD 8015M/D: DIESEL RANG   |                        | S      |                   |  | Analyst:              | том   |  |  |  |
| Diesel Range Organics (DRO)       | ND                     | 9.6    | mg/Kg             | 1                                      | 7/14/2016 3:45:14 PM  | 26377 |  |  |  |
| Surr: DNOP                        | 95.5                   | 70-130 | %Rec              | 1                                      | 7/14/2016 3:45:14 PM  | 26377 |  |  |  |
| EPA METHOD 8015D: GASOLINE RANG   | E                      |        |                   |  | Analyst:              | NSB   |  |  |  |
| Gasoline Range Organics (GRO)     | ND                     | 4.7    | mg/Kg             | 1                                      | 7/15/2016 6:13:41 PM  | 26374 |  |  |  |
| Surr: BFB                         | 98.3                   | 80-120 | %Rec              | 1                                      | 7/15/2016 6:13:41 PM  | 26374 |  |  |  |
| EPA METHOD 8021B: VOLATILES       |                        |        |                   |  | Analyst:              | NSB   |  |  |  |
| Benzene                           | ND                     | 0.023  | mg/Kg             | 1                                      | 7/15/2016 6:13:41 PM  | 26374 |  |  |  |
| Toluene                           | ND                     | 0.047  | mg/Kg             | 1                                      | 7/15/2016 6:13:41 PM  | 26374 |  |  |  |
| Ethylbenzene                      | ND                     | 0.047  | mg/Kg             | 1                                      | 7/15/2016 6:13:41 PM  | 26374 |  |  |  |
| Xylenes, Total                    | ND                     | 0.093  | mg/Kg             | 1                                      | 7/15/2016 6:13:41 PM  | 26374 |  |  |  |
| Surr: 4-Bromofluorobenzene        | 94.6                   | 80-120 | %Rec              | 1                                      | 7/15/2016 6:13:41 PM  | 26374 |  |  |  |

| Qualifiers: | *                                      | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|--|---|----|---|
|             | D                                      | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | Н                                      | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 1 of 11   |
|             | ND Not Detected at the Reporting Limit |   | Р  | Sample pH Not In Range                                    |
|             | R                                      | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S                                      | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |  |   |    |   |

Analytical Report Lab Order 1607562

Date Reported: 7/28/2016

# Hall Environmental Analysis Laboratory, Inc. Date CLIENT: APEX TITAN Client Sample ID: CP-2 Project: Trunk MD 16" Hydro Collection Date: 7/11/2

## Collection Date: 7/11/2016 12:40:00 PM Received Date: 7/12/2016 7:50:00 AM

| Lab ID: 1607562-002               | Matrix:     | Received | Received Date: 7/12/2016 7:50:00 AM |    |                       |       |  |  |
|-----------------------------------|-------------|----------|-------------------------------------|----|-----------------------|-------|--|--|
| Analyses                          | Result      | PQL      | Qual Units                          | DF | Date Analyzed         | Batch |  |  |
| EPA METHOD 300.0: ANIONS          |             |          |                                     |    | Analys                | t LGT |  |  |
| Fluoride                          | 0.74        | 0.30     | mg/Kg                               | 1  | 7/15/2016 12:44:38 PM | 26445 |  |  |
| Chloride                          | 3.6         | 1.5      | mg/Kg                               | 1  | 7/15/2016 12:44:38 PM | 26445 |  |  |
| Nitrogen, Nitrite (As N)          | ND          | 0.30     | mg/Kg                               | 1  | 7/15/2016 12:44:38 PM | 26445 |  |  |
| Bromide                           | ND          | 0.30     | mg/Kg                               | 1  | 7/15/2016 12:44:38 PM | 26445 |  |  |
| Nitrogen, Nitrate (As N)          | 1.4         | 0.30     | mg/Kg                               | 1  | 7/15/2016 12:44:38 PM | 26445 |  |  |
| Phosphorus, Orthophosphate (As P) | ND          | 1.5      | mg/Kg                               | 1  | 7/15/2016 12:44:38 PM | 26445 |  |  |
| Sulfate                           | 11          | 1.5      | mg/Kg                               | 1  | 7/15/2016 12:44:38 PM | 26445 |  |  |
| EPA METHOD 6010B: SOIL METALS     |             |          |                                     |    | Analyst               | MED   |  |  |
| Calcium                           | 790         | 25       | mg/Kg                               | 1  | 7/14/2016 10:37:44 AM | 26385 |  |  |
| Magnesium                         | 590         | 25       | mg/Kg                               | 1  | 7/14/2016 10:37:44 AM | 26385 |  |  |
| Potassium                         | 550         | 49       | mg/Kg                               | 1  | 7/14/2016 10:37:44 AM | 26385 |  |  |
| Sodium                            | 29          | 25       | mg/Kg                               | 1  | 7/14/2016 10:37:44 AM | 26385 |  |  |
| EPA METHOD 8015M/D: DIESEL RAN    | GE ORGANICS |          |                                     |    | Analyst               | TOM   |  |  |
| Diesel Range Organics (DRO)       | ND          | 9.7      | mg/Kg                               | 1  | 7/14/2016 4:13:35 PM  | 26377 |  |  |
| Surr: DNOP                        | 98.4        | 70-130   | %Rec                                | 1  | 7/14/2016 4:13:35 PM  | 26377 |  |  |
| EPA METHOD 8015D: GASOLINE RAI    | NGE         |          |                                     |    | Analyst               | NSB   |  |  |
| Gasoline Range Organics (GRO)     | ND          | 4.7      | mg/Kg                               | 1  | 7/15/2016 7:24:24 PM  | 26374 |  |  |
| Surr: BFB                         | 99.5        | 80-120   | %Rec                                | 1  | 7/15/2016 7:24:24 PM  | 26374 |  |  |
| EPA METHOD 8021B: VOLATILES       |             |          |                                     |    | Analyst               | NSB   |  |  |
| Benzene                           | ND          | 0.023    | ma/Ka                               | 1  | 7/15/2016 7:24:24 PM  | 26374 |  |  |
| Toluene                           | ND          | 0.047    | ma/Ka                               | 1  | 7/15/2016 7:24:24 PM  | 26374 |  |  |
| Ethylbenzene                      | ND          | 0.047    | mg/Ka                               | 1  | 7/15/2016 7:24:24 PM  | 26374 |  |  |
| Xylenes, Total                    | ND          | 0.094    | mg/Kg                               | 1  | 7/15/2016 7:24:24 PM  | 26374 |  |  |
| Surr: 4-Bromofluorobenzene        | 95.5        | 80-120   | %Rec                                | 1  | 7/15/2016 7:24:24 PM  | 26374 |  |  |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 2 of 11   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

Lab Order 1607562

Date Reported: 7/28/2016

# Hall Environmental Analysis Laboratory, Inc.

| <b>CLIENT:</b>           | APEX TITAN                 | Client Sample ID: CP-3 |        |            |  |                       |       |  |  |
|--------------------------|----------------------------|------------------------|--------|------------|--|-----------------------|-------|--|--|
| <b>Project:</b>          | Trunk MD 16" Hydro         |                        |        | Collecti   | Collection Date: 7/11/2016 12:50:00 PM |                       |       |  |  |
| Lab ID:                  | 1607562-003                | Matrix:                | SOIL   | Receiv     | ed Date: 7/1                           | 2/2016 7:50:00 AM     |       |  |  |
| Analyses                 |                            | Result                 | PQL    | Qual Units | DF                                     | Date Analyzed         | Batch |  |  |
| EPA METHOD 300.0: ANIONS |                            |                        |        |            |  | Analyst               | LGT   |  |  |
| Fluoride                 |                            | 1.2                    | 0.30   | mg/Kg      | 1                                      | 7/15/2016 1:34:17 PM  | 26445 |  |  |
| Chloride                 |                            | 4.6                    | 1.5    | mg/Kg      | 1                                      | 7/15/2016 1:34:17 PM  | 26445 |  |  |
| Nitrogen,                | Nitrite (As N)             | ND                     | 0.30   | mg/Kg      | 1                                      | 7/15/2016 1:34:17 PM  | 26445 |  |  |
| Bromide                  |                            | ND                     | 0.30   | mg/Kg      | 1                                      | 7/15/2016 1:34:17 PM  | 26445 |  |  |
| Nitrogen,                | Nitrate (As N)             | 1.0                    | 0.30   | mg/Kg      | 1                                      | 7/15/2016 1:34:17 PM  | 26445 |  |  |
| Phospho                  | rus, Orthophosphate (As P) | ND                     | 1.5    | mg/Kg      | 1                                      | 7/15/2016 1:34:17 PM  | 26445 |  |  |
| Sulfate                  |                            | 10                     | 1.5    | mg/Kg      | 1                                      | 7/15/2016 1:34:17 PM  | 26445 |  |  |
| EPA MET                  | HOD 6010B: SOIL METALS     |                        |        |            |  | Analyst               | MED   |  |  |
| Calcium                  |                            | 1400                   | 25     | mg/Kg      | 1                                      | 7/14/2016 10:46:30 AM | 26385 |  |  |
| Magnesiu                 | um                         | 1300                   | 25     | mg/Kg      | 1                                      | 7/14/2016 10:46:30 AM | 26385 |  |  |
| Potassiu                 | m                          | 870                    | 50     | mg/Kg      | 1                                      | 7/14/2016 10:46:30 AM | 26385 |  |  |
| Sodium                   |                            | 32                     | 25     | mg/Kg      | 1                                      | 7/14/2016 10:46:30 AM | 26385 |  |  |
| EPA MET                  | HOD 8015M/D: DIESEL RAN    | GE ORGANIC             | S      |            |  | Analyst               | том   |  |  |
| Diesel Ra                | ange Organics (DRO)        | ND                     | 9.7    | mg/Kg      | 1                                      | 7/14/2016 4:41:51 PM  | 26377 |  |  |
| Surr: D                  | DNOP                       | 95.5                   | 70-130 | %Rec       | 1                                      | 7/14/2016 4:41:51 PM  | 26377 |  |  |
| EPA MET                  | HOD 8015D: GASOLINE RAN    | IGE                    |        |            |  | Analyst               | NSB   |  |  |
| Gasoline                 | Range Organics (GRO)       | ND                     | 4.7    | mg/Kg      | 1                                      | 7/15/2016 7:47:53 PM  | 26374 |  |  |
| Surr: E                  | BFB                        | 96.4                   | 80-120 | %Rec       | 1                                      | 7/15/2016 7:47:53 PM  | 26374 |  |  |
| EPA MET                  | HOD 8021B: VOLATILES       |                        |        |            |  | Analyst               | NSB   |  |  |
| Benzene                  |                            | ND                     | 0.023  | mg/Kg      | 1                                      | 7/15/2016 7:47:53 PM  | 26374 |  |  |
| Toluene                  |                            | ND                     | 0.047  | mg/Kg      | 1                                      | 7/15/2016 7:47:53 PM  | 26374 |  |  |
| Ethylben                 | zene                       | ND                     | 0.047  | mg/Kg      | 1                                      | 7/15/2016 7:47:53 PM  | 26374 |  |  |
| Xylenes,                 | Total                      | ND                     | 0.094  | mg/Kg      | 1                                      | 7/15/2016 7:47:53 PM  | 26374 |  |  |
| Surr: 4                  | -Bromofluorobenzene        | 92.2                   | 80-120 | %Rec       | 1                                      | 7/15/2016 7:47:53 PM  | 26374 |  |  |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | Е  | Value above quantitation range                            |
|             | Η  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 3 of 11   |
|             | ND | Not Detected at the Reporting Limit                   |    | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

Analytical Report Lab Order 1607562

Date Reported: 7/28/2016

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: CP-4

 Project: Trunk MD 16" Hydro
 Collection Date: 7/11/2016 1:00:00 PM

 Lab ID: 1607562-004
 Matrix: SOIL
 Received Date: 7/12/2016 7:50:00 AM

 Analyses
 Result
 PQL Qual Units
 DF Date Analyzed

| Analyses                          | Result  | PQL Qual | Units | DF | Date Analyzed         | Batch |  |
|-----------------------------------|---------|----------|-------|----|-----------------------|-------|--|
| EPA METHOD 300.0: ANIONS          |         |          |       |    | Analyst               | LGT   |  |
| Fluoride                          | 0.45    | 0.30     | mg/Kg | 1  | 7/15/2016 1:59:07 PM  | 26445 |  |
| Chloride                          | 2.5     | 1.5      | mg/Kg | 1  | 7/15/2016 1:59:07 PM  | 26445 |  |
| Nitrogen, Nitrite (As N)          | ND      | 0.30     | mg/Kg | 1  | 7/15/2016 1:59:07 PM  | 26445 |  |
| Bromide                           | ND      | 0.30     | mg/Kg | 1  | 7/15/2016 1:59:07 PM  | 26445 |  |
| Nitrogen, Nitrate (As N)          | 0.55    | 0.30     | mg/Kg | 1  | 7/15/2016 1:59:07 PM  | 26445 |  |
| Phosphorus, Orthophosphate (As P) | ND      | 1.5      | mg/Kg | 1  | 7/15/2016 1:59:07 PM  | 26445 |  |
| Sulfate                           | 5.7     | 1.5      | mg/Kg | 1  | 7/15/2016 1:59:07 PM  | 26445 |  |
| EPA METHOD 6010B: SOIL METALS     |         |          |       |    | Analyst               | MED   |  |
| Calcium                           | 660     | 25       | mg/Kg | 1  | 7/14/2016 10:49:13 AM | 26385 |  |
| Magnesium                         | 380     | 25       | mg/Kg | 1  | 7/14/2016 10:49:13 AM | 26385 |  |
| Potassium                         | 370     | 49       | mg/Kg | 1  | 7/14/2016 10:49:13 AM | 26385 |  |
| Sodium                            | ND      | 25       | mg/Kg | 1  | 7/14/2016 10:49:13 AM | 26385 |  |
| EPA METHOD 8015M/D: DIESEL RANGE  | ORGANIC | S        |       |    | Analyst               | TOM   |  |
| Diesel Range Organics (DRO)       | ND      | 9.6      | mg/Kg | 1  | 7/14/2016 5:10:07 PM  | 26377 |  |
| Surr: DNOP                        | 98.2    | 70-130   | %Rec  | 1  | 7/14/2016 5:10:07 PM  | 26377 |  |
| EPA METHOD 8015D: GASOLINE RANGE  | E       |          |       |    | Analyst:              | NSB   |  |
| Gasoline Range Organics (GRO)     | ND      | 4.7      | mg/Kg | 1  | 7/15/2016 8:11:16 PM  | 26374 |  |
| Surr: BFB                         | 98.1    | 80-120   | %Rec  | 1  | 7/15/2016 8:11:16 PM  | 26374 |  |
| EPA METHOD 8021B: VOLATILES       |         |          |       |    | Analyst:              | NSB   |  |
| Benzene                           | ND      | 0.024    | mg/Kg | 1  | 7/15/2016 8:11:16 PM  | 26374 |  |
| Toluene                           | ND      | 0.047    | mg/Kg | 1  | 7/15/2016 8:11:16 PM  | 26374 |  |
| Ethylbenzene                      | ND      | 0.047    | mg/Kg | 1  | 7/15/2016 8:11:16 PM  | 26374 |  |
| Xylenes, Total                    | ND      | 0.094    | mg/Kg | 1  | 7/15/2016 8:11:16 PM  | 26374 |  |
| Surr: 4-Bromofluorobenzene        | 93.9    | 80-120   | %Rec  | 1  | 7/15/2016 8:11:16 PM  | 26374 |  |
|                                   |         |          |       |    |                       |       |  |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | Η  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 4 of 11   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

#### Lab Order 1607562

Date Reported: 7/28/2016

-

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX TITAN** Client Sample ID: CP-5 Collection Date: 7/11/2016 1:10:00 PM Project: Trunk MD 16" Hydro Lab ID: 1607562-005 Matrix: SOIL Received Date: 7/12/2016 7:50:00 AM 4 1 -1 11 14 . DOI ~ .... . .

|      |   |   |  | Analysi  | LGT  |
|------|---|---|--|--|--|
| 2.3  | 0.30  | mg/Kg   | 1  | 7/15/2016 2:23:55 PM   | 26445  |
| 6.1  | 1.5   | mg/Kg   | 1  | 7/15/2016 2:23:55 PM   | 26445  |
| ND   | 0.30  | mg/Kg   | 1  | 7/15/2016 2:23:55 PM   | 26445  |
| ND   | 0.30  | mg/Kg   | 1  | 7/15/2016 2:23:55 PM   | 26445  |
| ND   | 0.30  | mg/Kg   | 1  | 7/15/2016 2:23:55 PM   | 26445  |
| ND   | 1.5   | mg/Kg   | 1  | 7/15/2016 2:23:55 PM   | 26445  |
| 15   | 1.5   | mg/Kg   | 1  | 7/15/2016 2:23:55 PM   | 26445  |
| 5    |   |   |  | Analyst  | MED  |
| 1100 | 25  | mg/Kg   | 1  | 7/14/2016 10:51:58 AM  | 26385  |
| 570  | 25  | mg/Kg   | 1  | 7/14/2016 10:51:58 AM  | 26385  |
| 440  | 50  | mg/Kg   | 1  | 7/14/2016 10:51:58 AM  | 26385  |
| 35   | 25  | mg/Kg   | 1  | 7/14/2016 10:51:58 AM  | 26385  |
|      | 6   |   |  | Analyst  | TOM  |
| ND   | 9.9   | mg/Kg   | 1  | 7/14/2016 5:38:43 PM   | 26377  |
| 99.9 | 70-130  | %Rec  | 1  | 7/14/2016 5:38:43 PM   | 26377  |
| NGE  |   |   |  | Analyst  | NSB  |
| ND   | 4.8   | mg/Kg   | 1  | 7/15/2016 8:34:41 PM   | 26374  |
| 96.8 | 80-120  | %Rec  | 1  | 7/15/2016 8:34:41 PM   | 26374  |
|      |   |   |  | Analyst  | NSB  |
| ND   | 0.024   | mg/Kg   | 1  | 7/15/2016 8:34:41 PM   | 26374  |
| ND   | 0.048   | mg/Kg   | 1  | 7/15/2016 8:34:41 PM   | 26374  |
| ND   | 0.048   | mg/Kg   | 1  | 7/15/2016 8:34:41 PM   | 26374  |
| ND   | 0.096   | mg/Kg   | 1  | 7/15/2016 8:34:41 PM   | 26374  |
| 91.7 | 80-120  | %Rec  | 1  | 7/15/2016 8:34:41 PM   | 26374  |
|      | 2.3<br>6.1<br>ND<br>ND<br>ND<br>15<br>570<br>440<br>35<br>NGE ORGANICS<br>ND<br>99.9<br>NGE<br>ND<br>96.8<br>ND<br>96.8<br>ND<br>96.8 | 2.3 0.30<br>6.1 1.5<br>ND 0.30<br>ND 0.30<br>ND 0.30<br>ND 1.5<br>15 1.5<br>570 25<br>440 50<br>35 25<br>NGE ORGANICS<br>ND 9.9<br>99.9 70-130<br>ND 9.9<br>99.9 70-130<br>ND 4.8<br>96.8 80-120<br>ND 0.024<br>ND 0.048<br>ND 0.048<br>ND 0.048<br>ND 0.096<br>91.7 80-120 | 2.3 0.30 mg/Kg<br>6.1 1.5 mg/Kg<br>ND 0.30 mg/Kg<br>ND 0.30 mg/Kg<br>ND 1.5 mg/Kg<br>15 1.5 mg/Kg<br>570 25 mg/Kg<br>570 25 mg/Kg<br>35 25 mg/Kg<br>35 25 mg/Kg<br>00 9.9 mg/Kg<br>35 25 mg/Kg<br>00 9.9 mg/Kg<br>01 9.9 mg/Kg<br>01 9.9 mg/Kg<br>01 9.9 mg/Kg<br>02 mg/Kg<br>03 0.048 mg/Kg<br>00 0.048 mg/Kg<br>01 | 2.3         0.30         mg/Kg         1           6.1         1.5         mg/Kg         1           ND         0.30         mg/Kg         1           ND         0.30         mg/Kg         1           ND         0.30         mg/Kg         1           ND         0.30         mg/Kg         1           ND         1.5         mg/Kg         1           15         1.5         mg/Kg         1           15         1.5         mg/Kg         1           570         25         mg/Kg         1           35         25         mg/Kg         1           35         25         mg/Kg         1           ND         9.9         mg/Kg         1           ND         9.9         mg/Kg         1           ND         9.9         mg/Kg         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.096         mg/Kg         1           ND         0.096         mg/Kg         1 | Analyst<br>2.3 0.30 mg/Kg 1 7/15/2016 2:23:55 PM<br>6.1 1.5 mg/Kg 1 7/15/2016 2:23:55 PM<br>ND 0.30 mg/Kg 1 7/15/2016 2:23:55 PM<br>ND 0.30 mg/Kg 1 7/15/2016 2:23:55 PM<br>ND 0.30 mg/Kg 1 7/15/2016 2:23:55 PM<br>ND 1.5 mg/Kg 1 7/15/2016 2:23:55 PM<br>15 1.5 mg/Kg 1 7/15/2016 2:23:55 PM<br>15 1.5 mg/Kg 1 7/15/2016 2:23:55 PM<br>10 25 mg/Kg 1 7/14/2016 10:51:58 AM<br>570 25 mg/Kg 1 7/14/2016 10:51:58 AM<br>440 50 mg/Kg 1 7/14/2016 10:51:58 AM<br>35 25 mg/Kg 1 7/14/2016 10:51:58 AM<br>35 25 mg/Kg 1 7/14/2016 10:51:58 AM<br>MGE CRGANICS Analyst<br>ND 9.9 mg/Kg 1 7/14/2016 5:38:43 PM<br>99.9 70-130 %Rec 1 7/14/2016 5:38:43 PM<br>99.9 70-130 %Rec 1 7/14/2016 5:38:43 PM<br>96.8 80-120 %Rec 1 7/15/2016 8:34:41 PM<br>Analyst<br>ND 0.024 mg/Kg 1 7/15/2016 8:34:41 PM<br>ND 0.048 mg/Kg 1 7/15/2016 8:34:41 PM |

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method Blank           |
|-------------|----|---|----|---|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                            |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits Page 5 of 11   |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                                    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |
|             |    |   |    |   |

| QC SU<br>Hall Er    | vironmen      | Y REPO               | ysis I  | aborat    | ory, Inc.                          |          |          |             |      | WO#:     |
|---------------------|---------------|----------------------|---------|-----------|------------------------------------|----------|----------|-------------|------|----------|
| Client:<br>Project: | APEX<br>Trunk | TITAN<br>MD 16" Hyd  | ro      |           |                                    |          |          |             |      |          |
| Sample ID           | MB-26445      | 26445 SampType: MBLK |         | Tes       | TestCode: EPA Method 300.0: Anions |          |          |             |      |          |
| Client ID:          | PBS           | Batch                | ID: 26  | 445       | F                                  | RunNo: 3 | 5763     |             |      |          |
| Prep Date:          | 7/15/2016     | Analysis D           | ate: 7/ | 15/2016   | S                                  | SeqNo: 1 | 106514   | Units: mg/l | ۲g   |          |
| Analyte             |               | Result               | PQL     | SPK value | SPK Ref Val                        | %REC     | LowLimit | HighLimit   | %RPD | RPDLimit |
| Fluoride            |               | ND                   | 0.30    |           |                                    |          |          |             |      |          |
| Chloride            |               | ND                   | 1.5     |           |                                    |          |          |             |      |          |
| Nitrogen, Nitrite   | e (As N)      | ND                   | 0.30    |           |                                    |          |          |             |      |          |

VDDDDD

ND

ND

ND

0.30

0.30

1.5

....

.....

Bromide

Nitrogen, Nitrate (As N)

Phosphorus, Orthophosphate (As P

| Sulfate                          | ND                       | 1.5  |           |                                    |      |          |              |      |          |      |  |
|----------------------------------|--------------------------|------|-----------|------------------------------------|------|----------|--------------|------|----------|------|--|
| Sample ID LCS-26445              | SampType: LCS            |      |           | TestCode: EPA Method 300.0: Anions |      |          |              |      |          |      |  |
| Client ID: LCSS                  | Batch ID: 26445          |      |           | RunNo: 35763                       |      |          |              |      |          |      |  |
| Prep Date: 7/15/2016             | Analysis Date: 7/15/2016 |      |           | SeqNo: 1106515                     |      |          | Units: mg/Kg |      |          |      |  |
| Analyte                          | Result                   | PQL  | SPK value | SPK Ref Val                        | %REC | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |  |
| Fluoride                         | 1.5                      | 0.30 | 1.500     | 0                                  | 102  | 90       | 110          |      |          |      |  |
| Chloride                         | 14                       | 1.5  | 15.00     | 0                                  | 92.5 | 90       | 110          |      |          |      |  |
| Nitrogen, Nitrite (As N)         | 2.8                      | 0.30 | 3.000     | 0                                  | 93.8 | 90       | 110          |      |          |      |  |
| Bromide                          | 6.8                      | 0.30 | 7.500     | 0                                  | 90.7 | 90       | 110          |      |          |      |  |
| Nitrogen, Nitrate (As N)         | 7.3                      | 0.30 | 7.500     | 0                                  | 97.0 | 90       | 110          |      |          |      |  |
| Phosphorus, Orthophosphate (As P | 14                       | 1.5  | 15.00     | 0                                  | 92.6 | 90       | 110          |      |          |      |  |
| Sulfate                          | 29                       | 1.5  | 30.00     | 0                                  | 95.5 | 90       | 110          |      |          |      |  |

| Sample ID 1607562-001AMS         | SampT                    | ype: MS         | 6         | Tes         | tCode: El                   |          |           |      |          |      |
|----------------------------------|--------------------------|-----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID: CP-1                  | Batch                    | Batch ID: 26445 |           |             | RunNo: 3                    |          |           |      |          |      |
| Prep Date: 7/15/2016             | Analysis Date: 7/15/2016 |                 |           | 5           | SeqNo: 1106533 Units: mg/Kg |          |           |      |          |      |
| Analyte                          | Result                   | PQL             | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride                         | 1.6                      | 0.30            | 1.500     | 0.7127      | 60.9                        | 15       | 110       |      |          |      |
| Chloride                         | 18                       | 1.5             | 15.00     | 3.380       | 94.7                        | 70.8     | 119       |      |          |      |
| Nitrogen, Nitrite (As N)         | 2.8                      | 0.30            | 3.000     | 0           | 92.8                        | 71.5     | 113       |      |          |      |
| Bromide                          | 7.0                      | 0.30            | 7.500     | 0           | 93.3                        | 81.1     | 111       |      |          |      |
| Nitrogen, Nitrate (As N)         | 8.2                      | 0.30            | 7.500     | 0.8363      | 98.2                        | 83.8     | 113       |      |          |      |
| Phosphorus, Orthophosphate (As P | 8.4                      | 1.5             | 15.00     | 0           | 55.9                        | 15       | 105       |      |          |      |
| Sulfate                          | 47                       | 1.5             | 30.00     | 16.78       | 100                         | 25.1     | 158       |      |          |      |

| Sample ID  | 1607562-001AMSE | SampTy      | pe: MS  | SD        | Test        | tCode: E | PA Method | 300.0: Anion | s    |          |      |
|------------|-----------------|-------------|---------|-----------|-------------|----------|-----------|--------------|------|----------|------|
| Client ID: | CP-1            | Batch       | ID: 26  | 445       | R           | unNo: 3  | 5763      |              |      |          |      |
| Prep Date: | 7/15/2016       | Analysis Da | ite: 7/ | 15/2016   | S           | eqNo: 1  | 106534    | Units: mg/K  | g    |          |      |
| Analyte    |                 | Result      | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Fluoride   |                 | 1.6         | 0.30    | 1.500     | 0.7127      | 56.0     | 15        | 110          | 4.62 | 20       |      |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

Sample pH Not In Range

- J Analyte detected below quantitation limits
  - hits Page 6 of 11
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

1607562 28-Jul-16

Qual

# **QC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

**Client:** 

-

#### APEX TITAN

Trunk MD 16" Hydro **Project:** 

| Sample ID 1607562-001AMS  | D SampT | ype: MS  | SD        | Tes         | tCode: El | PA Method | 300.0: Anion | S     |          |      |
|---|---------|----------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Client ID: CP-1   | F       | RunNo: 3 | 5763      |             |           |           |              |       |          |      |
| Prep Date:         7/15/2016         Analysis Date:         7/15/2016         SeqNo:         1106534         Units:         mg/Kg |         |          |           |             |           |           |              |       |          |      |
| Analyte   | Result  | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Chloride  | 18      | 1.5      | 15.00     | 3.380       | 94.6      | 70.8      | 119          | 0.130 | 20       |      |
| Nitrogen, Nitrite (As N)  | 2.8     | 0.30     | 3.000     | 0           | 94.9      | 71.5      | 113          | 2.16  | 20       |      |
| Bromide   | 7.1     | 0.30     | 7.500     | 0           | 95.1      | 81.1      | 111          | 1.88  | 20       |      |
| Nitrogen, Nitrate (As N)  | 8.3     | 0.30     | 7.500     | 0.8363      | 99.8      | 83.8      | 113          | 1.37  | 20       |      |
| Phosphorus, Orthophosphate (As P  | 9.2     | 1.5      | 15.00     | 0           | 61.5      | 15        | 105          | 9.57  | 20       |      |
| Sulfate   | 44      | 1.5      | 30.00     | 16.78       | 91.7      | 25.1      | 158          | 5.62  | 20       |      |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Page 7 of 11

28-Jul-16

WO#: 1607562

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607562

28-Jul-16

**Client:** APEX TITAN Trunk MD 16" Hydro **Project:** SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID LCS-26377 Client ID: LCSS Batch ID: 26377 RunNo: 35683 Prep Date: 7/13/2016 Analysis Date: 7/14/2016 SeqNo: 1105643 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Range Organics (DRO) 51 10 50.00 0 101 62.6 124 Surr: DNOP 4.7 5.000 94.1 70 130 Sample ID MB-26377 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 26377 RunNo: 35683 Analysis Date: 7/14/2016 Prep Date: 7/13/2016 SeqNo: 1105644 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual Range Organics (DRO) ND 10 Surr: DNOP 9.1 10.00 91.1 70 130

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 11

| QC | SUMM | ARY | REPORT |  |
|----|------|-----|--------|--|
|----|------|-----|--------|--|

WO#: 1607562

28-Jul-16

| Hall Environme | ental Analysis | Laboratory, | Inc. |
|----------------|----------------|-------------|------|
|----------------|----------------|-------------|------|

| <b>Client:</b>  | APEX TI           | TAN        |          |           |             |  |           |             |                                   |          |      |
|-----------------|-------------------|------------|----------|-----------|-------------|--|-----------|-------------|-----------------------------------|----------|------|
| <b>Project:</b> | Trunk M           | D 16" Hyd  | ro       |           |             |  |           |             |                                   |          |      |
|                 |                   | 0          |          |           | Tee         |  |           |             | line Deer                         |          |      |
| Sample ID       | MB-26374          | Sampi      | ype: MI  | BLK       | les         | Testode. EFA metiou ou tob. Gasonine hange |           |             |                                   |          |      |
| Client ID:      | PBS               | Batch      | n ID: 26 | 374       | F           | RunNo: 3                                   | 5744      |             |                                   |          |      |
| Prep Date:      | 7/13/2016         | Analysis D | ate: 7/  | 15/2016   | S           | SeqNo: 1                                   | 105954    | Units: mg/l | <g< th=""><th></th><th></th></g<> |          |      |
| Analyte         |                   | Result     | PQL      | SPK value | SPK Ref Val | %REC                                       | LowLimit  | HighLimit   | %RPD                              | RPDLimit | Qual |
| Gasoline Rang   | ge Organics (GRO) | ND         | 5.0      |           |             |  |           |             |                                   |          |      |
| Surr: BFB       |                   | 970        |          | 1000      |             | 96.9                                       | 80        | 120         |                                   |          |      |
| Sample ID       | LCS-26374         | SampT      | ype: LC  | s         | Tes         | tCode: El                                  | PA Method | 8015D: Gase | oline Rang                        | e        |      |
| Client ID:      | LCSS              | Batch      | D: 26    | 374       | F           | RunNo: 3                                   | 5744      |             |                                   |          |      |
| Prep Date:      | 7/13/2016         | Analysis D | ate: 7/  | 15/2016   | S           | SeqNo: 1                                   | 105955    | Units: mg/k | ۲g                                |          |      |
| Analyte         |                   | Result     | PQL      | SPK value | SPK Ref Val | %REC                                       | LowLimit  | HighLimit   | %RPD                              | RPDLimit | Qual |
| Gasoline Rang   | ge Organics (GRO) | 26         | 5.0      | 25.00     | 0           | 104  | 80        | 120         |                                   |          |      |
| Surr: BFB       |                   | 1100       |          | 1000      |             | 108  | 80        | 120         |                                   |          |      |
| Sample ID       | 1607562-001AMS    | SampT      | ype: MS  | S         | Tes         | tCode: El                                  | PA Method | 8015D: Gase | oline Rang                        | e        |      |
| Client ID:      | CP-1              | Batch      | D: 26    | 374       | F           | RunNo: 3                                   | 5744      |             |                                   |          |      |
| Prep Date:      | 7/13/2016         | Analysis D | ate: 7/  | 15/2016   | S           | eqNo: 1                                    | 105970    | Units: mg/k | ٢g                                |          |      |
| Analyte         |                   | Result     | PQL      | SPK value | SPK Ref Val | %REC                                       | LowLimit  | HighLimit   | %RPD                              | RPDLimit | Qual |
| Gasoline Rang   | ge Organics (GRO) | 24         | 4.7      | 23.34     | 0           | 104  | 59.3      | 143         |                                   |          |      |
| Surr: BFB       |                   | 1000       |          | 933.7     |             | 110  | 80        | 120         |                                   |          |      |
| Sample ID       | 1607562-001AMSI   | D SampT    | ype: MS  | SD        | Tes         | tCode: El                                  | PA Method | 8015D: Gase | oline Rang                        | e        |      |
| Client ID:      | CP-1              | Batch      | n ID: 26 | 374       | F           | unNo: 3                                    | 5744      |             |                                   |          |      |
| Prep Date:      | 7/13/2016         | Analysis D | ate: 7/  | 15/2016   | S           | eqNo: 1                                    | 105971    | Units: mg/h | ۲g                                |          |      |
| Analyte         |                   | Result     | PQL      | SPK value | SPK Ref Val | %REC                                       | LowLimit  | HighLimit   | %RPD                              | RPDLimit | Qual |
| Caseline Dans   | 0 : (000)         | 05         | 5.0      | 05.00     | 0           | 400  | 50.0      | 4.40        | 0.07                              | 00       |      |
| Gasoline Rang   | ge Organics (GRO) | 25         | 5.0      | 25.00     | 0           | 100  | 59.3      | 143         | 3.07                              | 20       |      |

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 9 of 11

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| QC   | SUMMARY I     | REPOR    | Г           |      |
|------|---------------|----------|-------------|------|
| Hall | Environmental | Analysis | Laboratory, | Inc. |

APEX TITAN

**Client:** 

| Project: Trunk N           | AD 16" Hydro   |           |                |                |           |              |       |          |      |
|----------------------------|----------------|-----------|----------------|----------------|-----------|--------------|-------|----------|------|
| Sample ID MB-26374         | SampType       | MBLK      | T              | estCode: E     | PA Method | 8021B: Volat | tiles |          | e .  |
| Client ID: PBS             | Batch ID:      | 26374     |                | RunNo: 35744   |           |              |       |          |      |
| Prep Date: 7/13/2016       | Analysis Date: | 7/15/2016 |                | SeqNo: 1105992 |           |              | g     |          |      |
| Analyte                    | Result P       | QL SPK va | lue SPK Ref Va | al %REC        | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Benzene                    | ND 0.0         | 025       |                |                |           |              |       |          |      |
| Toluene                    | ND 0.0         | 050       |                |                |           |              |       |          |      |
| Ethylbenzene               | ND 0.0         | 050       |                |                |           |              |       |          |      |
| Xylenes, Total             | ND 0           | 0.10      |                |                |           |              |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.94           | 1.        | 000            | 93.6           | 80        | 120          |       |          |      |
| Sample ID LCS-26374        | SampType       | LCS       | T              | estCode: E     | PA Method | 8021B: Volat | iles  |          |      |
| Client ID: LCSS            | Batch ID:      | 26374     |                | RunNo: 3       | 5744      |              |       |          |      |
| Prep Date: 7/13/2016       | Analysis Date: | 7/15/2016 |                | SeqNo: 1       | 105993    | Units: mg/K  | g     |          |      |
| Analyte                    | Result Po      | QL SPK va | lue SPK Ref Va | al %REC        | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.99 0.0       | 025 1.    | 0 000          | 99.0           | 75.3      | 123          |       |          |      |
| Toluene                    | 0.97 0.0       | 050 1.    | 0 000          | 97.1           | 80        | 124          |       |          |      |
| Ethylbenzene               | 0.99 0.0       | 050 1.    | 0 000          | 99.4           | 82.8      | 121          |       |          |      |
| Xylenes, Total             | 3.0 0          | .10 3.    | 0 000          | 98.5           | 83.9      | 122          |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.98           | 1.        | 000            | 97.9           | 80        | 120          |       |          |      |

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

ion limits Page 10 of 11

WO#: 1607562

28-Jul-16

| QC SI               | JMMARY              | REPO               | RT     |           |             |           |           |             |        | WO#:     | 1607562   |
|---------------------|---------------------|--------------------|--------|-----------|-------------|-----------|-----------|-------------|--------|----------|-----------|
| Hall Er             | <b>nvironmenta</b>  | l Analy            | sis I  | Laborat   | ory, Inc.   |           |           |             |        |          | 28-Jul-16 |
| Client:<br>Project: | APEX TI<br>Trunk MI | TAN<br>D 16" Hydro | )      |           |             |           |           |             |        |          |           |
| Sample ID           | MB-26385            | SampTy             | pe: MI | BLK       | Tes         | tCode: El | PA Method | 6010B: Soil | Metals |          |           |
| Client ID:          | PBS                 | Batch              | D: 26  | 385       | F           | RunNo: 3  | 5691      |             |        |          |           |
| Prep Date:          | 7/13/2016           | Analysis Da        | te: 7  | /14/2016  | 5           | SeqNo: 1  | 104223    | Units: mg/k | ٢g     |          |           |
| Analyte             |                     | Result             | PQL    | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual      |
| Calcium             |                     | ND                 | 25     |           |             |           |           |             |        |          |           |
| Magnesium           |                     | ND                 | 25     |           |             |           |           |             |        |          |           |
| Potassium           |                     | ND                 | 50     |           |             |           |           |             |        |          |           |
| Sodium              |                     | ND                 | 25     |           |             |           |           |             |        |          |           |
| Sample ID           | LCS-26385           | SampTy             | pe: LC | s         | Tes         | tCode: El | PA Method | 6010B: Soil | Metals |          |           |
| Client ID:          | LCSS                | Batch              | D: 26  | 385       | F           | RunNo: 3  | 5691      |             |        |          |           |
| Prep Date:          | 7/13/2016           | Analysis Da        | te: 7  | 14/2016   | S           | eqNo: 1   | 104224    | Units: mg/h | ٢g     |          |           |
| Analyte             |                     | Result             | PQL    | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual      |
| Calcium             |                     | 2400               | 25     | 2500      | 0           | 95.7      | 80        | 120         |        |          |           |
| Magnesium           |                     | 2300               | 25     | 2500      | 0           | 94.0      | 80        | 120         |        |          |           |
| Potassium           |                     | 2300               | 50     | 2500      | 0           | 90.6      | 80        | 120         |        |          |           |
| Sodium              |                     | 2400               | 25     | 2500      | 0           | 94.3      | 80        | 120         |        |          |           |
| Sample ID           | 1607562-001AMS      | SampTy             | pe: M  | S         | Tes         | Code: El  | PA Method | 6010B: Soil | Metals |          |           |
| Client ID:          | CP-1                | Batch              | D: 26  | 385       | R           | unNo: 3   | 5691      |             |        |          |           |
| Prep Date:          | 7/13/2016           | Analysis Da        | te: 7  | 14/2016   | S           | eqNo: 1   | 104238    | Units: mg/k | ٢g     |          |           |
| Analyte             |                     | Result             | PQL    | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual      |
| Calcium             |                     | 4100               | 50     | 2493      | 1928        | 85.7      | 75        | 125         |        |          |           |
| Magnesium           |                     | 3300               | 50     | 2493      | 1052        | 90.0      | 75        | 125         |        |          |           |
| Potassium           |                     | 2800               | 100    | 2493      | 730.2       | 83.9      | 75        | 125         |        |          |           |
| Sodium              |                     | 2200               | 50     | 2493      | 40.04       | 87.7      | 75        | 125         |        |          |           |
| Sample ID           | 1607562-001AMSD     | SampTy             | be: M  | SD        | Test        | Code: El  | PA Method | 6010B: Soil | Metals |          |           |
| Client ID:          | CP-1                | Batch              | D: 26  | 385       | R           | unNo: 3   | 5691      |             |        |          |           |

| Prep Date: | 7/13/2016 | Analysis Date: 7/14/2016 |     |           | S           | SeqNo: 1104239 Units: mg/Kg |          |           |       |          |      |
|------------|-----------|--------------------------|-----|-----------|-------------|-----------------------------|----------|-----------|-------|----------|------|
| Analyte    |           | Result                   | PQL | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Calcium    |           | 4100                     | 50  | 2476      | 1928        | 87.5                        | 75       | 125       | 0.773 | 20       |      |
| Magnesium  |           | 3300                     | 50  | 2476      | 1052        | 91.6                        | 75       | 125       | 0.740 | 20       |      |
| Potassium  |           | 2900                     | 99  | 2476      | 730.2       | 87.0                        | 75       | 125       | 2.20  | 20       |      |
| Sodium     |           | 2100                     | 50  | 2476      | 40.04       | 84.3                        | 75       | 125       | 4.56  | 20       |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Page 11 of 11

- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

WO#. 1607562

| HALL Environmental Albu<br>ANALYSIS<br>LABORATORY TEL: 505-345-3975 A<br>Website: www.hal | Analysis Laboratory<br>4901 Hawkins NE<br>guergue, NM 87109<br>FAX: 505–345–4107<br>lenvironmental.com | Sam     | ple Log-In Check List                                  |
|---|--|---------|--|
| Client Name: APEX AZTEC Work Order Number:  | 1607562  |         | RcptNo: 1  |
| Received by/date: 07/12/11  |  |         |  |
| Logged By: Lindsay Mangin 7/12/2016 7:50:00 AM  | 0  | + ytheo | ·  |
| Completed By: Lindsay Mangin 7/13/2016 8:36:24 AM   | 0  | + t Mas |  |
| Reviewed By: 07/13/16   |  |         |  |
| Chain of Custody  |  | _       |  |
| 1. Custody seals intact on sample bottles?  | Yes  | No 🗋    | Not Present  |
| 2. Is Chain of Custody complete?  | Yes 🗹  | No 🗌    | Not Present  |
| 3, How was the sample delivered?  | Courier  |         |  |
| Log In  |  |         |  |
| 4. Was an attempt made to cool the samples?   | Yes 🗹  | No 🗆    |  |
| 5. Were all samples received at a temperature of >0° C to 6.0°C                           | Yes 🗹  | No 🗌    |  |
| 6. Sample(s) in proper container(s)?  | Yes 🗹  | No 🗌    |  |
| 7. Sufficient sample volume for indicated test(s)?  | Yes 🗹  | No 🗆    |  |
| 8. Are samples (except VOA and ONG) properly preserved?                                   | Yes 🗹  | No 🗌    |  |
| 9. Was preservative added to bottles?   | Yes  | No 🗹    | NA 🗌   |
| 10.VOA vials have zero headspace?   | Yes  | No 🗌    | No VOA Vials   |
| 11. Were any sample containers received broken?   | Yes  | No 🗹    | # of preserved   |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       | Yes 🗹  | No 🗆    | bottles checked<br>for pH:<br>(<2 or >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody?                                | Yes 🗹  | No 🗌    | Adjusted?  |
| 14, is it clear what analyses were requested?   | Yes 🖌  | No 🗌    |  |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes 🗹  | No 🗌    | Checked by:  |

#### Special Handling (if applicable)

| 16. Was client n | 3. Was client notified of all discrepancies with this order? |  |              |       | ב     | No 🗌 |          | NA  | $\checkmark$ |
|------------------|--|--|--------------|-------|-------|------|----------|-----|--------------|
| Persor<br>By Wh  | n Notified:  |  | Date<br>Via: | eMail | Phone | Fax  | 🗌 In Per | son |              |
| Regar            | ding:<br>Instructions:                                       |  | ·            |       |       |      |          |     |              |

-

17. Additional remarks:

#### 18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.0     | Good      | Yes         |         |           |           |

Page 1 of 1

|                   |          |              |                     |                        |               |            |             |                              |   |            |                  |                                |                      |                                  |           |                     |                 |        |                     |              |           |         |       |       |     | C  | HAIN | OF  | CUS                                    | TODY  | RECO               |
|-------------------|----------|--------------|---------------------|------------------------|---------------|------------|-------------|------------------------------|---|------------|------------------|--------------------------------|----------------------|----------------------------------|-----------|---------------------|-----------------|--------|---------------------|--------------|-----------|---------|-------|-------|-----|----|------|-----|--|---|--------------------|
| A                 | P<br>e L |              | X                   | n                      | 12-           | ec         | 1           | M                            | Laborat<br>Address<br>Contact<br>Phone: | ory:<br>s: | AI               | all E<br>buqu<br>AiFr          | invin<br>mag<br>reer | ronn<br>we <sub>r</sub> i<br>nar | vm<br>1   | ta                  |                 | AN     | QUE                 | SIS<br>ESTI  | Del Maria | Ozart . | Think |       |     |    |      |     | Lab<br>Due<br>Tem<br>when<br>1<br>Page | use only<br>Date:<br>// 0<br>p. of coole<br>a received<br>2 3 | rs<br>(C°):<br>4 ! |
| Proje             | ect      | Ma           | nag                 | ger                    | K.5           | <i>s</i> u | m           | nurs                         | PO/SO                                   | #: _       |                  |                                |                      |                                  | /         |                     |                 |        | À                   | $\mathbf{H}$ | Ħ         | /-      | ₹     | /     | /   | /  |      | /   |  |   |                    |
| Sampl             | ler's    | s Na         |                     | echill                 | <b>v</b> (    | 34         |             | Apon):10                     | Sampler's                               | signe<br>M | ature            | K                              | 1                    | A                                | >         |                     |                 |        | 21 RT               |              | 17        | 1 24    | +     | / /   | /   |    |      |     |  |   |                    |
| Proj. N           | No.      |              |                     |                        | P             | oje        | ct Na<br>Tr | ame<br>MNY.MD                | 1611 1                                  | Hydr       | ·D               |                                | No/Ty                | ype of C                         | ontair    | ners                |                 |        | Ř                   | 2            | J         | Et l    | /     | /     | /   | /  | /    |     |  |   |                    |
| Matrix            |          | Date         | ,                   | Time                   | ľ             |            | Grab        | Identifying Ma               | rks of Samp                             | e(s)       | Start<br>Depth   | End                            | VOA                  | AG<br>1 LL                       | 250<br>ml | Glass<br>Jar        | D/d             |        | /                   | /            | /         | / /     | /     | /     | /   | /  | /    | Lab | Sample                                 | ID (Lab U   | se Only)           |
| 9                 | 7        | 111          | 16                  | 1230                   |               |            |             | CP-                          | -1                                      |            |                  |                                |                      |                                  |           | 1                   |                 | X      | ×                   | ×            | X         |         |       |       |     |    |      | 10  | 67                                     | 56  | 2-00               |
| 3                 |          | 1            |                     | 124                    | 0             |            |             | CP-                          | 2                                       |            |                  |                                |                      |                                  |           | 1                   |                 | X      | ×                   | X            | ×         |         |       |       |     |    |      |     |  |   | -00                |
| S                 |          |              |                     | 125                    | 0             |            |             | CP.                          | 3                                       |            |                  |                                |                      |                                  |           | 1                   |                 | X      | X                   | X            | X         |         |       |       |     |    |      |     |  |   | -0                 |
| S                 |          | Y            |                     | 130                    | 0             |            |             | CP.                          | -4                                      |            |                  |                                |                      |                                  |           | 1                   |                 | X      | X                   | X            | X         |         |       |       |     |    |      |     |  |   | -0                 |
| 5                 |          | $\checkmark$ | •                   | 1311                   | >             |            |             | SP                           | -5                                      |            |                  |                                |                      |                                  |           | i                   |                 | X      | ×                   | X            | X         |         |       |       |     |    |      |     |  |   | 00                 |
|                   |          | _            | -                   |                        |               | 4          | _           |                              |   | _          |                  |                                |                      |                                  |           |                     |                 |        |                     |              |           |         | _     | _     | _   |    |      |     |  |   |                    |
|                   | -        |              | _                   |                        | T             | +          | -           |                              | Alter                                   |            |                  |                                |                      |                                  |           |                     |                 |        |                     | _            | -         |         | -     | _     | _   | _  |      |     |  |   |                    |
|                   | $\vdash$ | _            | -                   |                        | +             | +          | _           |                              | TAKS                                    | -          | -                |                                |                      | -                                |           | -                   |                 |        |                     | -            | -         |         |       | _     |     |    |      |     |  |   |                    |
|                   | $\vdash$ |              | _                   |                        | +             | -          | -           |                              |   | -          |                  |                                |                      | -                                | -         |                     |                 |        |                     |              |           |         | -     | -     |     |    |      |     |  | _   |                    |
| Turn a            | rou      | ınd ti       | me                  | X                      | lorma         | 1          | 02          | 5% Rush                      | 50% Rush                                | 9          | 190%             | Rush                           | 4                    | 1                                |           |                     |                 |        |                     |              |           |         |       |       |     |    |      |     |  |   |                    |
| Relinq            |          | shed         | by (<br>chi<br>by ( | Signatu                | ne)<br>ne)    |            | 11          | Date:<br>Hi(1)6 )6<br>Date:  | Time: R<br>15<br>Time: R                | eceiv      | ed by:<br>ed by: | (Signa<br><u>* (</u><br>(Signa | iture)               |                                  | Ø         | Date<br>7//<br>Date | 2//             |        | ime:<br>750<br>ime: | ð '          | NOTE      | 1       | Bil   | 1+    | 0   | To | m L  | ing | )                                      |   |                    |
| Relinq            | quis     | hed          | by (                | Signatu                | re)           |            | -           | Date:                        | Time: R                                 | eceiv      | ed by:           | (Signa                         | ture)                |                                  | +         | Date                |                 | т      | me:                 | -            |           |         | 1     | V     | 2 : | 57 | 89   | )   |  |   |                    |
| Relinq            | luis     | hed          | by (                | Signatu                | re)           |            |             | Date:                        | Time: R                                 | eceiv      | ed by:           | (Signa                         | ture)                |                                  | +         | Date                | :               | Т      | me:                 |              |           |         |       |       |     |    |      |     |  |   |                    |
| Matrix<br>Contain | ner      |              | WW                  | V - Waste<br>A - 40 mi | water<br>vial | -          |             | W - Water<br>A/G - Amber / C | S - Soil SE<br>or Glass 1 Lite          | ) - Sol    | ld L             | - Liquío<br>250 ml -           | d A<br>Glass         | - Air Ba<br>wide mo              | g         | C P/                | Char<br>D - Pla | coal t | ube<br>r othe       | S<br>Sr      | L - slu   | dge     | (     | 0 - O | il  |    |      |     |  |   |                    |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 28, 2016

Kyle Summers APEX TITAN 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX

OrderNo.: 1607561

Dear Kyle Summers:

RE: Trunk MD 16"

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/12/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### Lab Order 1607561

Date Reported: 7/28/2016

#### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: APEX TITAN
 Client Sample ID: Rupture #8

 Project:
 Trunk MD 16"
 Collection Date: 7/9/2016 12:00:00 PM

 Lab ID:
 1607561-001
 Matrix: AQUEOUS
 Received Date: 7/12/2016 7:50:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

| ,                              |        |         |      |   |                       |        |
|--------------------------------|--------|---------|------|---|-----------------------|--------|
| EPA METHOD 7470: MERCURY       |        |         |      |   | Analyst               | pmf    |
| Mercury                        | ND     | 0.00020 | mg/L | 1 | 7/15/2016 10:27:28 AM | 26407  |
| EPA 6010B: TOTAL RECOVERABLE   | METALS |         |      |   | Analyst               | MED    |
| Arsenic                        | ND     | 0.020   | mg/L | 1 | 7/15/2016 10:28:02 AM | 26413  |
| Barium                         | 0.25   | 0.020   | mg/L | 1 | 7/21/2016 11:47:16 AM | 26413  |
| Cadmium                        | ND     | 0.0020  | mg/L | 1 | 7/15/2016 10:28:02 AM | 26413  |
| Chromium                       | ND     | 0.0060  | mg/L | 1 | 7/15/2016 10:28:02 AM | 26413  |
| Lead                           | 0.0066 | 0.0050  | mg/L | 1 | 7/19/2016 8:10:40 AM  | 26413  |
| Selenium                       | ND     | 0.050   | mg/L | 1 | 7/15/2016 10:28:02 AM | 26413  |
| Silver                         | ND     | 0.0050  | mg/L | 1 | 7/15/2016 10:28:02 AM | 26413  |
| EPA METHOD 8260B: VOLATILES    |        |         |      |   | Analyst               | DJF    |
| Benzene                        | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Toluene                        | ND     | 1,0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Ethylbenzene                   | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 1,2,4-Trimethylbenzene         | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 1,3,5-Trimethylbenzene         | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 1,2-Dichloroethane (EDC)       | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 1,2-Dibromoethane (EDB)        | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Naphthalene                    | ND     | 2.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 1-Methylnaphthalene            | ND     | 4.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 2-Methylnaphthalene            | ND     | 4.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Acetone                        | ND     | 10      | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Bromobenzene                   | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Bromodichloromethane           | 6.6    | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Bromoform                      | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Bromomethane                   | ND     | 3.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 2-Butanone                     | ND     | 10      | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Carbon disulfide               | ND     | 10      | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Carbon Tetrachloride           | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Chlorobenzene                  | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Chloroethane                   | ND     | 2.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Chloroform                     | 47     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| Chloromethane                  | ND     | 3.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 2-Chlorotoluene                | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 4-Chlorotoluene                | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| cis-1,2-DCE                    | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| cis-1,3-Dichloropropene        | ND     | 1.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |
| 1,2-Dibromo-3-chloropropane    | ND     | 2.0     | µg/L | 1 | 7/15/2016 12:12:00 AM | A35696 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1607561

| Hall Environmental Analys   | is Labora | tory, Inc. |            | Date Reported: 7/28/2016       |
|-----------------------------|-----------|------------|------------|--------------------------------|
| CLIENT: APEX TITAN          |           | (          | Client Sam | ple ID: Rupture #8             |
| Project: Trunk MD 16"       |           |            | Collection | n Date: 7/9/2016 12:00:00 PM   |
| Lab ID: 1607561-001         | Matrix:   | AQUEOUS    | Received   | d Date: 7/12/2016 7:50:00 AM   |
| Analyses                    | Result    | PQL Qual   | Units      | DF Date Analyzed Batch         |
| EPA METHOD 8260B: VOLATILES |           |            |            | Analyst: DJF                   |
| Dibromochloromethane        | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Dibromomethane              | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,2-Dichlorobenzene         | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,3-Dichlorobenzene         | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,4-Dichlorobenzene         | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Dichlorodifluoromethane     | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,1-Dichloroethane          | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,1-Dichloroethene          | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,2-Dichloropropane         | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,3-Dichloropropane         | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 2,2-Dichloropropane         | ND        | 2.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,1-Dichloropropene         | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Hexachlorobutadiene         | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 2-Hexanone                  | ND        | 10         | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Isopropylbenzene            | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 4-Isopropyltoluene          | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 4-Methyl-2-pentanone        | ND        | 10         | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Methylene Chloride          | ND        | 3.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| n-Butylbenzene              | ND        | 3.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| n-Propylbenzene             | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| sec-Butylbenzene            | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Styrene                     | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| tert-Butylbenzene           | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1.1.1.2-Tetrachloroethane   | ND        | 1.0        | ua/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1.1.2.2-Tetrachloroethane   | ND        | 2.0        | ua/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Tetrachloroethene (PCE)     | ND        | 1.0        | ug/L       | 1 7/15/2016 12:12:00 AM A35696 |
| trans-1.2-DCE               | ND        | 1.0        | ug/L       | 1 7/15/2016 12:12:00 AM A35696 |
| trans-1.3-Dichloropropene   | ND        | 1.0        | ua/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1.2.3-Trichlorobenzene      | ND        | 1.0        | ug/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1.2.4-Trichlorobenzene      | ND        | 1.0        | ua/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1.1.1-Trichloroethane       | ND        | 1.0        | ua/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,1,2-Trichloroethane       | ND        | 1.0        | ua/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Trichloroethene (TCE)       | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Trichlorofluoromethane      | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| 1,2,3-Trichloropropane      | ND        | 2.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Vinyl chloride              | ND        | 1.0        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| Xylenes, Total              | ND        | 1.5        | µg/L       | 1 7/15/2016 12:12:00 AM A35696 |
| IS: 1,4-Dichlorobenzene-d4  | 10        | 0          | 10-        | 1 7/15/2016 12:12:00 AM A35696 |
| IS: Chlorobenzene-d5        | 10        | 0          |            | 1 7/15/2016 12:12:00 AM A35696 |

1

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | В  | Analyte detected in the associated Method    | Blank           |
|-------------|----|---|----|--|-----------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range               |                 |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits   | Page 2 of 7     |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                       | 1 age 2 01 7    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                    |                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit | it as specified |
|             |    |   |    |  |                 |

#### Lab Order 1607561

Date Reported: 7/28/2016

| CLIENT: APEX TITAN          |         |         | Client Samp | e ID: Ru  | pture #8              |        |
|-----------------------------|---------|---------|-------------|-----------|-----------------------|--------|
| Lab ID: 1607561-001         | Matrix: | AQUEOUS | Received    | Date: 7/9 | 2/2016 7:50:00 AM     |        |
| Analyses                    | Result  | PQL Q   | ual Units   | DF        | Date Analyzed         | Batch  |
| EPA METHOD 8260B: VOLATILES |         |         |             |           | Analys                | DJF    |
| IS: Pentafluorobenzene      | 10      | 0       |             | 1         | 7/15/2016 12:12:00 AN | A35696 |
| Surr: 1,2-Dichloroethane-d4 | 96.8    | 70-130  | %Rec        | 1         | 7/15/2016 12:12:00 AN | A35696 |
| Surr: 4-Bromofluorobenzene  | 101     | 70-130  | %Rec        | 1         | 7/15/2016 12:12:00 AN | A35696 |
| Surr: Dibromofluoromethane  | 99.9    | 70-130  | %Rec        | 1         | 7/15/2016 12:12:00 AM | A35696 |
| Surr: Toluene-d8            | 99.1    | 70-130  | %Rec        | 1         | 7/15/2016 12:12:00 AN | A35696 |

Hall Environmental Analysis Laboratory, Inc.

| Qualifiers: | *  | Value exceeds Maximum Contaminant Level.              | в  | Analyte detected in the associated Method  | Blank           |
|-------------|----|---|----|--|-----------------|
|             | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range             |                 |
|             | Н  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits | Page 3 of 7     |
|             | ND | Not Detected at the Reporting Limit                   | Р  | Sample pH Not In Range                     | 1 age 5 01 7    |
|             | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                  |                 |
|             | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of lim | it as specified |
|             |    |   |    |  |                 |

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Al Project: Tr

APEX TITAN Trunk MD 16"

| Sample ID 100ng Ics2           | SampType: LCS TestCode: EPA Method 8260B: VOLATILES |          |           |             |           |           |             |        |          |      |
|--------------------------------|---|----------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Client ID: LCSW                | Batch   | n ID: A3 | 5696      | F           | RunNo: 3  | 5696      |             |        |          |      |
| Prep Date:                     | Analysis D  | ate: 7/  | 14/2016   | S           | SeqNo: 1  | 105190    | Units: µg/L |        |          |      |
| Analyte                        | Result  | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                        | 48  | 1.0      | 47.00     | 0           | 102       | 70        | 130         |        |          |      |
| Toluene                        | 48  | 1.0      | 47.00     | 0           | 101       | 70        | 130         |        |          |      |
| Chlorobenzene                  | 47  | 1.0      | 47.00     | 0           | 100       | 70        | 130         |        |          |      |
| 1,1-Dichloroethene             | 49  | 1.0      | 47.00     | 0           | 104       | 70        | 130         |        |          |      |
| Trichloroethene (TCE)          | 45  | 1.0      | 47.00     | 0           | 96.7      | 70        | 130         |        |          |      |
| IS: 1,4-Dichlorobenzene-d4     | 10  | 0        |           |             |           |           |             |        |          |      |
| IS: Chlorobenzene-d5           | 10  | 0        |           |             |           |           |             |        |          |      |
| IS: Pentafluorobenzene         | 10  | 0        |           |             |           |           |             |        |          |      |
| Surr: 1,2-Dichloroethane-d4    | 10  |          | 10.00     |             | 102       | 70        | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene     | 9.9   |          | 10.00     |             | 98.9      | 70        | 130         |        |          |      |
| Surr: Dibromofluoromethane     | 9.7   |          | 10.00     |             | 96.9      | 70        | 130         |        |          |      |
| Surr: Toluene-d8               | 9.6   |          | 10.00     |             | 96.1      | 70        | 130         |        |          |      |
| Sample ID, sh                  | Sama  | WDO: ME  |           | Tos         |           | DA Mathad | P2EOD: VOL  |        |          |      |
|                                | Batch ID: A35696                                    |          |           | 103         |           | FAMELIOU  | 0200D. VOLA | AIILES |          |      |
| Cilent ID. PDW                 | Dalci<br>Anatosia D                                 | TID. AS  | 0090      |             | antino. 3 | 5090      | I Indian    |        |          |      |
| Prep Date:                     | Analysis L  | ate: 71  | 14/2016   | 5           | eqNo: 1   | 105199    | Units: µg/L |        |          |      |
| Analyte                        | Result  | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Benzene                        | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Toluene                        | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Ethylbenzene                   | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Methyl tert-butyl ether (MTBE) | ND  | 1.0      |           |             |           |           |             |        |          |      |
| 1,2,4-Trimethylbenzene         | ND  | 1.0      |           |             |           |           |             |        |          |      |
| 1,3,5-Trimethylbenzene         | ND  | 1.0      |           |             |           |           |             |        |          |      |
| 1,2-Dichloroethane (EDC)       | ND  | 1.0      |           |             |           |           |             |        |          |      |
| 1,2-Dibromoethane (EDB)        | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Naphthalene                    | ND  | 2.0      |           |             |           |           |             |        |          |      |
| 1-Methylnaphthalene            | ND  | 4.0      |           |             |           |           |             |        |          |      |
| 2-Methylnaphthalene            | ND  | 4.0      |           |             |           |           |             |        |          |      |
| Acetone                        | ND  | 10       |           |             |           |           |             |        |          |      |
| Bromobenzene                   | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Bromodichloromethane           | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Bromoform                      | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Bromomethane                   | ND  | 3.0      |           |             |           |           |             |        |          |      |
| 2-Butanone                     | ND  | 10       |           |             |           |           |             |        |          |      |
| Carbon disulfide               | ND  | 10       |           |             |           |           |             |        |          |      |
| Carbon Tetrachloride           | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Chlorobenzene                  | ND  | 1.0      |           |             |           |           |             |        |          |      |
| Chloroethane                   | ND  | 2.0      |           |             |           |           |             |        |          |      |

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit R RPD outside accepted recovery limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1607561 28-Jul-16

# **QC SUMMARY REPORT**

Hall Environmental Analysis Laboratory, Inc.

**Client:** 

**Project:** 

APEX TITAN Trunk MD 16"

| Sample ID rb                | SampT      | ype: MI | BLK       | Tes         | tCode: E | PA Method | 8260B: VOL  | ATILES |          |      |
|-----------------------------|------------|---------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW              | Batch      | ID: A3  | 5696      | F           | RunNo: 3 | 5696      |             |        |          |      |
| Prep Date:                  | Analysis D | ate: 7  | 14/2016   | 5           | SeqNo: 1 | 105199    | Units: µg/L |        |          |      |
| Analyte                     | Result     | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Chloroform                  | ND         | 1.0     |           |             |          |           |             |        |          |      |
| Chloromethane               | ND         | 3.0     |           |             |          |           |             |        |          |      |
| 2-Chlorotoluene             | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 4-Chlorotoluene             | ND         | 1.0     |           |             |          |           |             |        |          |      |
| cis-1,2-DCE                 | ND         | 1.0     |           |             |          |           |             |        |          |      |
| cis-1,3-Dichloropropene     | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,2-Dibromo-3-chloropropane | ND         | 2.0     |           |             |          |           |             |        |          |      |
| Dibromochloromethane        | ND         | 1.0     |           |             |          |           |             |        |          |      |
| Dibromomethane              | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,2-Dichlorobenzene         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,3-Dichlorobenzene         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,4-Dichlorobenzene         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| Dichlorodifluoromethane     | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,1-Dichloroethane          | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,1-Dichloroethene          | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,2-Dichloropropane         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,3-Dichloropropane         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 2,2-Dichloropropane         | ND         | 2.0     |           |             |          |           |             |        |          |      |
| 1,1-Dichloropropene         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| Hexachlorobutadiene         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 2-Hexanone                  | ND         | 10      |           |             |          |           |             |        |          |      |
| Isopropylbenzene            | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 4-Isopropyltoluene          | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 4-Methyl-2-pentanone        | ND         | 10      |           |             |          |           |             |        |          |      |
| Methylene Chloride          | ND         | 3.0     |           |             |          |           |             |        |          |      |
| n-Butylbenzene              | ND         | 3.0     |           |             |          |           |             |        |          |      |
| n-Propylbenzene             | ND         | 1.0     |           |             |          |           |             |        |          |      |
| sec-Butylbenzene            | ND         | 1.0     |           |             |          |           |             |        |          |      |
| Styrene                     | ND         | 1.0     |           |             |          |           |             |        |          |      |
| tert-Butylbenzene           | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,1,1,2-Tetrachloroethane   | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,1,2,2-Tetrachloroethane   | ND         | 2.0     |           |             |          |           |             |        |          |      |
| Tetrachloroethene (PCE)     | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,2-DCE                     | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,3-Dichloropropene         | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,2,3-Trichlorobenzene      | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,2,4-Trichlorobenzene      | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,1,1-Trichloroethane       | ND         | 1.0     |           |             |          |           |             |        |          |      |
| 1,1,2-Trichloroethane       | ND         | 1.0     |           |             |          |           |             |        |          |      |

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Ρ Sample pH Not In Range
- **Reporting Detection Limit** RL
- W Sample container temperature is out of limit as specified

WO#: 1607561 28-Jul-16

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project: APEX TITAN Trunk MD 16"

| Sample ID rb                | SampT      | ype: ME  | BLK       | Test        | Code: El | PA Method | 8260B: VOL  | ATILES |          |      |
|-----------------------------|------------|----------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW              | Batch      | n ID: A3 | 5696      | R           | unNo: 3  | 5696      |             |        |          |      |
| Prep Date:                  | Analysis D | ate: 7/  | 14/2016   | S           | eqNo: 1  | 105199    | Units: µg/L |        |          |      |
| Analyte                     | Result     | PQL      | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD   | RPDLimit | Qual |
| Trichloroethene (TCE)       | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Trichlorofluoromethane      | ND         | 1.0      |           |             |          |           |             |        |          |      |
| 1,2,3-Trichloropropane      | ND         | 2.0      |           |             |          |           |             |        |          |      |
| Vinyl chloride              | ND         | 1.0      |           |             |          |           |             |        |          |      |
| Xylenes, Total              | ND         | 1.5      |           |             |          |           |             |        |          |      |
| IS: 1,4-Dichlorobenzene-d4  | 10         | 0        |           |             |          |           |             |        |          |      |
| IS: Chlorobenzene-d5        | 10         | 0        |           |             |          |           |             |        |          |      |
| IS: Pentafluorobenzene      | 10         | 0        |           |             |          |           |             |        |          |      |
| Surr: 1,2-Dichloroethane-d4 | 10         |          | 10.00     |             | 103      | 70        | 130         |        |          |      |
| Surr: 4-Bromofluorobenzene  | 10         |          | 10.00     |             | 101      | 70        | 130         |        |          |      |
| Surr: Dibromofluoromethane  | 10         |          | 10.00     |             | 99.8     | 70        | 130         |        |          |      |
| Surr: Toluene-d8            | 9.7        |          | 10.00     |             | 96.6     | 70        | 130         |        |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1607561

28-Jul-16

# QC SUMMARY REPORT

| Hall | Environmental | Analysia | Laboratory  | Inc  |
|------|---------------|----------|-------------|------|
| пап  | Environmental | Analysis | Laboratory, | Inc. |

WO#: 1607561

28-Jul-16

**Client:** APEX TITAN Trunk MD 16" **Project:** Sample ID MB-26407 SampType: MBLK TestCode: EPA Method 7470: Mercury PBW RunNo: 35726 Client ID: Batch ID: 26407 Prep Date: 7/14/2016 SeqNo: 1105600 Analysis Date: 7/15/2016 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.00020 ry Sample ID LCS-26407 SampType: LCS TestCode: EPA Method 7470: Mercury RunNo: 35726 Client ID: LCSW Batch ID: 26407 Prep Date: 7/14/2016 Analysis Date: 7/15/2016 SegNo: 1105601 Units: ma/L SPK value SPK Ref Val %RPD %REC HighLimit **RPDLimit** Analyte Result POL LowLimit Qual Mercury 0.0052 0.00020 0.005000 0 103 80 120 TestCode: EPA Method 7470: Mercury Sample ID 1607561-001BMS SampType: MS **Rupture #8** Batch ID: 26407 RunNo: 35726 Client ID: Prep Date: Analysis Date: 7/15/2016 SeqNo: 1105603 7/14/2016 Units: mg/L PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result 0.0056 0.00020 0.005000 0.0001126 109 75 125 зигу Sample ID 1607561-001BMSD SampType: MSD TestCode: EPA Method 7470: Mercury Client ID: **Rupture #8** Batch ID: 26407 RunNo: 35726 Prep Date: 7/14/2016 Analysis Date: 7/15/2016 SeqNo: 1105604 Units: mg/L %RPD PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Analyte Result Qual 0.0056 0.00020 0.005000 0.0001126 110 75 0.599 20 125 ury

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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| ANALYSIS<br>LABORATORY   | Albu<br>Albu<br>L: 505-345-3975<br>Website: www.hal | 4901 Hawkin<br>querque, NM 8<br>FAX: 505-345-<br>llenvironmenta | ulory<br>ss NE<br>17109 <b>Samj</b><br>4107<br>Lcom | ole Log-In Cl  | neck List        |
|--|---|---|---|----------------|------------------|
| Client Name: APEX AZTEC Work   | Order Number:                                       | 1607561   |   | RcptNo:        | 1                |
| Received by/date: AT OT<br>Logged By: Lindsay Mangin 7/12/20   | 16 7:50:00 AM                                       |   | J-ymgo  |                |                  |
| Completed By: Lindsay Mangin 7/13/20<br>Reviewed By: 07  | 16 8:33:26 AM                                       |   | Jumpo   |                |                  |
| Chain of Custody   | 110   |   |   |                |                  |
| 1 Custody seals intact on sample bottles?  |   | Yes   | No 🗌  | Not Present    |                  |
| 2. Is Chain of Custody complete?   |   | Yes 🗹   | No 🗌  | Not Present    |                  |
| 3. How was the sample delivered?   |   | Courier   |   |                |                  |
| Log In   |   |   |   |                |                  |
| 4. Was an attempt made to cool the samples?  |   | Yes 🗹   | No 🗌  | NA 🗆           |                  |
| 5. Were all samples received at a temperature of >0° C   | C to 6.0°C  | Yes 🗹   | No 🗆  |                |                  |
| 6. Sample(s) in proper container(s)?   |   | Yes 🗹   | No 🗆  |                |                  |
| 7. Sufficient sample volume for indicated test(s)?   |   | Yes 🗹   | No 🗌  |                |                  |
| 8. Are samples (except VOA and ONG) properly preser  | ved?  | Yes 🗹   | No 🗌  |                |                  |
| 9. Was preservative added to bottles?  |   | Yes   | No 🗹  | NA 🗌           |                  |
| 10. VOA vials have zero headspace?   |   | Yes 🗹   | No 🗌  | No VOA Vials   |                  |
| 11. Were any sample containers received broken?  |   | Yes   | No 🗹 🏾  | # of preserved |                  |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)                              |   | Yes 🗹   | No 🗆  | for pH:        | >12 unless noted |
| 13. Are matrices correctly identified on Chain of Custody  | ?   | Yes 🗹   | No 🗆  | Adjusted?      | NO               |
| 14. Is it clear what analyses were requested?  |   | Yes 🗹   | No 🗌  |                | 20               |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.)                        |   | Yes 🗹   | No 🗌  | Checked by:    |                  |
| Special Handling (If applicable)   |   | _   | _   | _              |                  |
| 16. Was client notified of all discrepancies with this order   | 17  | Yes 🗌   | No  | NA 🗹           | 1                |
| Person Notified:<br>By Whom:   | Date<br>Via:  | eMail []  | Phone 🗍 Fax   | In Person      |                  |
| Regarding:   |   |   |   |                |                  |
| Client Instructions:   |   |   |   |                | ]                |
| 17. Additional remarks:  |   |   |   |                |                  |
| 18. Cooler Information   |   |   |   |                |                  |
| Cooler No         Temp °C         Condition         Seal Intact           1         1.0         Good         Yes | Seel No S   | Seal Date   | Signed By   |                |                  |
| Dage 1 of 1  |   |   |   |                |                  |

|  |   |  |                          |                 |        |          |                       |               |                             |          |      |                               | (   | CHAIN OF CUSTODY   | RECOR     |
|--|---|--|--------------------------|-----------------|--------|----------|-----------------------|---------------|-----------------------------|----------|------|-------------------------------|-----|--------------------|-----------|
| APEX<br>Office Location                        | Laboratory: <u>Hall</u><br>Address: <u>ABR</u><br>Contact: <u>Andy Freemon</u><br>Phone:<br>PO/SO#: |  |                          |                 |        |          | ANALYSIS<br>REQUESTED |               |                             |          |      | Lab use only<br>Due Date:<br> |     |                    |           |
| Project Manager                                |   |  |                          |                 |        |          |                       |               |                             |          | / /  |                               |     |                    |           |
| Sampler's Name<br>124 12 54                    | the ten ors   | Sampler's Signatur                     | *                        |                 |        |          |                       |               |                             | 20       |      | //                            |     |                    |           |
| Proj. No.                                      | 0 16"   | No/Type of Containe                    |                          |                 | ners   |          | CY L                  | 5//           |                             |          | //   |                               |     |                    |           |
| Matrix Date Time                               | O F<br>M a Identifying Ma   | rks of Sample(s)                       | Depth<br>Depth           | VOA             | S-     | m 250    | Glass                 | D/d           | 20                          | //       | //   |                               | / / | Lab Sample ID (Lab | Use Only) |
| W 7/9/16 1200                                  | & Rupt  | ure#8                                  |                          | 3               |        |          |                       | 1             | xx                          |          |      |                               |     | 1607561-           | 001       |
|  |   |  | _                        |                 |        |          |                       | -             |                             |          |      |                               |     |                    |           |
|  |   |  |                          |                 |        |          |                       |               |                             |          |      |                               |     |                    |           |
|  |   |  |                          |                 |        |          |                       |               |                             |          |      |                               |     |                    |           |
|  |   | -KJ                                    |                          |                 |        |          | -                     |               |                             |          |      |                               |     |                    |           |
|  |   |  |                          |                 |        |          |                       |               |                             |          |      |                               |     |                    |           |
|  |   |  |                          |                 |        |          |                       | >             |                             | _        |      |                               |     |                    |           |
| turn around time                               | mal 7 25% Puch  | SON Buch D10                           | 0% Pueb                  |                 |        |          |                       |               |                             |          |      |                               |     |                    | :         |
| lelinguisted by (Signature                     | 11/16 19  | Time: Beceived                         | by: (Signa               | ture)           |        | -        | Date                  | 6             | Time:<br>1445               | NOTE     | SR   | 11                            | To. | m Long.            |           |
| alinquished by (Signature                      | ) Date:<br>7/11/16 /<br>Date:   | Time: Received                         | by: (Signa<br>by: (Signa | iture)          |        | -6       | Date                  |               | Time:<br>07.57<br>Time:     |          |      | N                             | 25- | 789                |           |
| Relinquished by (Signature                     | ) Date:   | Time: Received                         | by: (Signa               | ture)           |        | +        | Date                  | - 1           | Time:                       |          |      |                               |     |                    |           |
| latrix WW - Wastewa<br>ontainer VOA - 40 ml vi | ater W - Water<br>al A/G - Amber / C  | S - Soil SD - Solid<br>r Glass 1 Liter | L - Liquia<br>250 ml -   | d A-<br>Glass w | Air Ba | g<br>uth | C -                   | Cha<br>D - Pl | rcoal tube<br>astic or othe | SL - slu | idge | 0-0                           |     |                    |           |

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204