

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES
 3275 Walnut Ave., Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: 201106374 Quote #: _____
 Logged By: _____ Date: 7/29/11

NOTE: Please include your Quote No. to ensure proper pricing of your project.

Client: MARTER
 Attn: MATT FRAYCHINEAUD
 Address: 5628 E. SLAUSON AVE
 City: LOS ANGELES State: CA Zip Code: 90040

Method of Transport:
 Client ATL
 FedEx OnTrac
 GSO Other: _____

Sample Condition Upon Receipt:
 1. CHILLED 2. SEALED 3. 4. 5. 6. PRESERVED
 7. HEADSPACE (VOA) 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 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623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000. 1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027. 1028. 1029. 1030. 1031. 1032. 1033. 1034. 1035. 1036. 1037. 1038. 1039. 1040. 1041. 1042. 1043. 1044. 1045. 1046. 1047. 1048. 1049. 1050. 1051. 1052. 1053. 1054. 1055. 1056. 1057. 1058. 1059. 1060. 1061. 1062. 1063. 1064. 1065. 1066. 1067. 1068. 1069. 1070. 1071. 1072. 1073. 1074. 1075. 1076. 1077. 1078. 1079. 1080. 1081. 1082. 1083. 1084. 1085. 1086. 1087. 1088. 1089. 1090. 1091. 1092. 1093. 1094. 1095. 1096. 1097. 1098. 1099. 1100. 1101. 1102. 1103. 1104. 1105. 1106. 1107. 1108. 1109. 1110. 1111. 1112. 1113. 1114. 1115. 1116. 1117. 1118. 1119. 1120. 1121. 1122. 1123. 1124. 1125. 1126. 1127. 1128. 1129. 1130. 1131. 1132. 1133. 1134. 1135. 1136. 1137. 1138. 1139. 1140. 1141. 1142. 1143. 1144. 1145. 1146. 1147. 1148. 1149. 1150. 1151. 1152. 1153. 1154. 1155. 1156. 1157. 1158. 1159. 1160. 1161. 1162. 1163. 1164. 1165. 1166. 1167. 1168. 1169. 1170. 1171. 1172. 1173. 1174. 1175. 1176. 1177. 1178. 1179. 1180. 1181. 1182. 1183. 1184. 1185. 1186. 1187. 1188. 1189. 1190. 1191. 1192. 1193. 1194. 1195. 1196. 1197. 1198. 1199. 1200. 1201. 1202. 1203. 1204. 1205. 1206. 1207. 1208. 1209. 1210. 1211. 1212. 1213. 1214. 1215. 1216. 1217. 1218. 1219. 1220. 1221. 1222. 1223. 1224. 1225. 1226. 1227. 1228. 1229. 1230. 1231. 1232. 1233. 1234. 1235. 1236. 1237. 1238. 1239. 1240. 1241. 1242. 1243. 1244. 1245. 1246. 1247. 1248. 1249. 1250. 1251. 1252. 1253. 1254. 1255. 1256. 1257. 1258. 1259. 1260. 1261. 1262. 1263. 1264. 1265. 1266. 1267. 1268. 1269. 1270. 1271. 1272. 1273. 1274. 1275. 1276. 1277. 1278. 1279. 1280. 1281. 1282. 1283. 1284. 1285. 1286. 1287. 1288. 1289. 1290. 1291. 1292. 1293. 1294. 1295. 1296. 1297. 1298. 1299. 1300. 1301. 1302. 1303. 1304. 1305. 1306. 1307. 1308. 1309. 1310. 1311. 1312. 1313. 1314. 1315. 1316. 1317. 1318. 1319. 1320. 1321. 1322. 1323. 1324. 1325. 1326. 1327. 1328. 1329. 1330. 1331. 1332. 1333. 1334. 1335. 1336. 1337. 1338. 1339. 1340. 1341. 1342. 1343. 1344. 1345. 1346. 1347. 1348. 1349. 1350. 1351. 1352. 1353. 1354. 1355. 1356. 1357. 1358. 1359. 1360. 1361. 1362. 1363. 1364. 1365. 1366. 1367. 1368. 1369. 1370. 1371. 1372. 1373. 1374. 1375. 1376. 1377. 1378. 1379. 1380. 1381. 1382. 1383. 1384. 1385. 1386. 1387. 1388. 1389. 1390. 1391. 1392. 1393. 1394. 1395. 1396. 1397. 1398. 1399. 1400. 1401. 1402. 1403. 1404. 1405. 1406. 1407. 1408. 1409. 1410. 1411. 1412. 1413. 1414. 1415. 1416. 1417. 1418. 1419. 1420. 1421. 1422. 1423. 1424. 1425. 1426. 1427. 1428. 1429. 1430. 1431. 1432. 1433. 1434. 1435. 1436. 1437. 1438. 1439. 1440. 1441. 1442. 1443. 1444. 1445. 1446. 1447. 1448. 1449. 1450. 1451. 1452. 1453. 1454. 1455. 1456. 1457. 1458. 1459. 1460. 1461. 1462. 1463. 1464. 1465. 1466. 1467. 1468. 1469. 1470. 1471. 1472. 1473. 1474. 1475. 1476. 1477. 1478. 1479. 1480. 1481. 1482. 1483. 1484. 1485. 1486. 1487. 1488. 1489. 1490. 1491. 1492. 1493. 1494. 1495. 1496. 1497. 1498. 1499. 1500. 1501. 1502. 1503. 1504. 1505. 1506. 1507. 1508. 1509. 1510. 1511. 1512. 1513. 1514. 1515. 1516. 1517. 1518. 1519. 1520. 1521. 1522. 1523. 1524. 1525. 1526. 1527. 1528. 1529. 1530. 1531. 1532. 1533. 1534. 1535. 1536. 1537. 1538. 1539. 1540. 1541. 1542. 1543. 1544. 1545. 1546. 1547. 1548. 1549. 1550. 1551. 1552. 1553. 1554. 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569. 1570. 1571. 1572. 1573. 1574. 1575. 1576. 1577. 1578. 1579. 1580. 1581. 1582. 1583. 1584. 1585. 1586. 1587. 1588. 1589. 1590. 1591. 1592. 1593. 1594. 1595. 1596. 1597. 1598. 1599. 1600. 1601. 1602. 1603. 1604. 1605. 1606. 1607. 1608. 1609. 1610. 1611. 1612. 1613. 1614. 1615. 1616. 1617. 1618. 1619. 1620. 1621. 1622. 1623. 1624. 1625. 1626. 1627. 1628. 1629. 1630. 1631. 1632. 1633. 1634. 1635. 1636. 1637. 1638. 1639. 1640. 1641. 1642. 1643. 1644. 1645. 1646. 1647. 1648. 1649. 1650. 1651. 1652. 1653. 1654. 1655. 1656. 1657. 1658. 1659. 1660. 1661. 1662. 1663. 1664. 1665. 1666. 1667. 1668. 1669. 1670. 1671. 1672. 1673. 1674. 1675. 1676. 1677. 1678. 1679. 1680. 1681. 1682. 1683. 1684. 1685. 1686. 1687. 1688. 1689. 1690. 1691. 1692. 1693. 1694. 1695. 1696. 1697. 1698. 1699. 1700. 1701. 1702. 1703. 1704. 1705. 1706. 1707. 1708. 1709. 1710. 1711. 1712. 1713. 1714. 1715. 1716. 1717. 1718. 1719. 1720. 1721. 1722. 1723. 1724. 1725. 1726. 1727. 1728. 1729. 1730. 1731. 1732. 1733. 1734. 1735. 1736. 1737. 1738. 1739. 1740. 1741. 1742. 1743. 1744. 1745. 1746. 1747. 1748. 1749. 1750. 1751. 1752. 1753. 1754. 1755. 1756. 1757. 1758. 1759. 1760. 1761. 1762. 1763. 1764. 1765. 1766. 1767. 1768. 1769. 1770. 1771. 1772. 1773. 1774. 1775. 1776. 1777. 1778. 1779. 1780. 1781. 1782. 1783. 1784. 1785. 1786. 1787. 1788. 1789. 1790. 1791. 1792. 1793. 1794. 1795. 1796. 1797. 1798. 1799. 1800. 1801. 1802. 1803. 1804. 1805. 1806. 1807. 1808. 1809. 1810. 1811. 1812. 1813. 1814. 1815. 1816. 1817. 1818. 1819. 1820. 1821. 1822. 1823. 1824. 1825. 1826. 1827. 1828. 1829. 1830. 1831. 1832. 1833. 1834. 1835. 1836. 1837. 1838. 1839. 1840. 1841. 1842. 1843. 1844. 1845. 1846. 1847. 1848. 1849. 1850. 1851. 1852. 1853. 1854. 1855. 1856. 1857. 1858. 1859. 1860. 1861. 1862. 1863. 1864. 1865. 1866. 1867. 1868. 1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 217

August 05, 2011



Matt Fraychineaud
Mactec
5628 E. Slauson Avenue,
Los Angeles, CA 90040-2922
TEL: (323) 889-5300
FAX:

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 119194

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on July 29, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Mactec
Project: METRO WESTSIDE EXTENSION, 4953-10-1
Lab Order: 119194

CASE NARRATIVE

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec **Client Sample ID:** E-110-15
Lab Order: 119194 **Collection Date:** 7/26/2011 1:15:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119194-001A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_110801A	QC Batch:	K11VS200	PrepDate:	7/26/2011	Analyst:	SLL
1,1,1,2-Tetrachloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,1,1-Trichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,1,2,2-Tetrachloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,1,2-Trichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,1-Dichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,1-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,1-Dichloropropene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2,3-Trichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2,3-Trichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2,4-Trichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2,4-Trimethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2-Dibromo-3-chloropropane	ND	8.3	µg/Kg	1	8/1/2011 01:09 PM		
1,2-Dibromoethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2-Dichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2-Dichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,2-Dichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,3,5-Trimethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,3-Dichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,3-Dichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
1,4-Dichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
2,2-Dichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
2-Chlorotoluene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
4-Chlorotoluene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
4-Isopropyltoluene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Benzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Bromobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Bromodichloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Bromoform	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Bromomethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Carbon tetrachloride	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Chlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Chloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Chloroform	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Chloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
cis-1,2-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec **Client Sample ID:** E-110-15
Lab Order: 119194 **Collection Date:** 7/26/2011 1:15:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119194-001A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_110801A	QC Batch:	K11VS200	PrepDate:	7/26/2011	Analyst:	SLL
cis-1,3-Dichloropropene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Di-isopropyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Dibromochloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Dibromomethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Dichlorodifluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Ethyl Tert-butyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Ethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Hexachlorobutadiene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Isopropylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
m,p-Xylene	ND	8.3	µg/Kg	1	8/1/2011 01:09 PM		
Methylene chloride	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
MTBE	9.6	4.1	µg/Kg	1	8/1/2011 01:09 PM		
n-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
n-Propylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Naphthalene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
o-Xylene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
sec-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Styrene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Tert-amyl methyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Tert-Butanol	ND	83	µg/Kg	1	8/1/2011 01:09 PM		
tert-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Tetrachloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Toluene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
trans-1,2-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Trichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Trichlorofluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Vinyl chloride	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Surr: 1,2-Dichloroethane-d4	121	65-141	%REC	1	8/1/2011 01:09 PM		
Surr: 4-Bromofluorobenzene	89.9	57-134	%REC	1	8/1/2011 01:09 PM		
Surr: Dibromofluoromethane	111	70-128	%REC	1	8/1/2011 01:09 PM		
Surr: Toluene-d8	96.6	72-123	%REC	1	8/1/2011 01:09 PM		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-15
Lab Order:	119194	Collection Date:	7/26/2011 1:15:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-001D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110801A	QC Batch: E11VS282	PrepDate: 7/26/2011	Analyst: TP		
GRO	ND	0.79	mg/Kg	1	8/1/2011 02:43 PM
Surr: Bromofluorobenzene (FID)	112	51-161	%REC	1	8/1/2011 02:43 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-15
Lab Order:	119194	Collection Date:	7/26/2011 1:15:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-001G		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110802B	QC Batch: 74666			PrepDate: 8/1/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/3/2011 01:19 AM
ORO	ND	10		mg/Kg	1	8/3/2011 01:19 AM
Surr: p-Terphenyl	80.6	63-152		%REC	1	8/3/2011 01:19 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-30
Lab Order:	119194	Collection Date:	7/26/2011 2:10:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_110801A	QC Batch: K11VS200	PrepDate: 7/26/2011	Analyst: SLL
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1,1,1,2-Tetrachloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,1,1-Trichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,1,2,2-Tetrachloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,1,2-Trichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,1-Dichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,1-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,1-Dichloropropene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2,3-Trichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2,3-Trichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2,4-Trichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2,4-Trimethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2-Dibromo-3-chloropropane	ND	8.1	µg/Kg	1	8/1/2011 01:27 PM
1,2-Dibromoethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2-Dichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2-Dichloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,2-Dichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,3,5-Trimethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,3-Dichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,3-Dichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
1,4-Dichlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
2,2-Dichloropropane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
2-Chlorotoluene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
4-Chlorotoluene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
4-Isopropyltoluene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Benzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Bromobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Bromodichloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Bromoform	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Bromomethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Carbon tetrachloride	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Chlorobenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Chloroethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Chloroform	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Chloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
cis-1,2-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec **Client Sample ID:** E-110-30
Lab Order: 119194 **Collection Date:** 7/26/2011 2:10:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119194-002A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_110801A	QC Batch:	K11VS200	PrepDate:	7/26/2011	Analyst:	SLL
cis-1,3-Dichloropropene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Di-isopropyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Dibromochloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Dibromomethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Dichlorodifluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Ethyl Tert-butyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Ethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Hexachlorobutadiene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Isopropylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
m,p-Xylene	ND	8.1	µg/Kg	1	8/1/2011 01:27 PM		
Methylene chloride	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
MTBE	7.9	4.1	µg/Kg	1	8/1/2011 01:27 PM		
n-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
n-Propylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Naphthalene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
o-Xylene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
sec-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Styrene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Tert-amyl methyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Tert-Butanol	ND	81	µg/Kg	1	8/1/2011 01:27 PM		
tert-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Tetrachloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Toluene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
trans-1,2-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Trichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Trichlorofluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Vinyl chloride	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM		
Surr: 1,2-Dichloroethane-d4	120	65-141	%REC	1	8/1/2011 01:27 PM		
Surr: 4-Bromofluorobenzene	88.8	57-134	%REC	1	8/1/2011 01:27 PM		
Surr: Dibromofluoromethane	109	70-128	%REC	1	8/1/2011 01:27 PM		
Surr: Toluene-d8	94.6	72-123	%REC	1	8/1/2011 01:27 PM		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-30
Lab Order:	119194	Collection Date:	7/26/2011 2:10:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110801A	QC Batch: E11VS282	PrepDate: 7/26/2011	Analyst: TP		
GRO	ND	0.83	mg/Kg	1	8/1/2011 02:59 PM
Surr: Bromofluorobenzene (FID)	109	51-161	%REC	1	8/1/2011 02:59 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-30
Lab Order: 119194	Collection Date: 7/26/2011 2:10:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-002G	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
LUFT			EPA 8015B(M)			
RunID: GC16_110802B	QC Batch: 74666				PrepDate: 8/1/2011	Analyst: CBR
DRO	ND	10		mg/Kg	1	8/3/2011 01:09 AM
ORO	ND	10		mg/Kg	1	8/3/2011 01:09 AM
Surr: p-Terphenyl	83.2	63-152		%REC	1	8/3/2011 01:09 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec **Client Sample ID:** E-110-60
Lab Order: 119194 **Collection Date:** 7/27/2011 12:55:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119194-003A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_110801A	QC Batch:	K11VS200	PrepDate:	7/26/2011	Analyst:	SLL
1,1,1,2-Tetrachloroethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,1,1-Trichloroethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,1,2,2-Tetrachloroethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,1,2-Trichloroethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,1-Dichloroethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,1-Dichloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,1-Dichloropropene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2,3-Trichlorobenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2,3-Trichloropropane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2,4-Trichlorobenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2,4-Trimethylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2-Dibromo-3-chloropropane	ND	7.7	µg/Kg	1	8/1/2011 01:45 PM		
1,2-Dibromoethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2-Dichlorobenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2-Dichloroethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,2-Dichloropropane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,3,5-Trimethylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,3-Dichlorobenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,3-Dichloropropane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
1,4-Dichlorobenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
2,2-Dichloropropane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
2-Chlorotoluene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
4-Chlorotoluene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
4-Isopropyltoluene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Benzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Bromobenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Bromodichloromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Bromoform	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Bromomethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Carbon tetrachloride	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Chlorobenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Chloroethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Chloroform	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Chloromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
cis-1,2-Dichloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-60
Lab Order:	119194	Collection Date:	7/27/2011 12:55:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_110801A	QC Batch: K11VS200	PrepDate: 7/26/2011	Analyst: SLL		
cis-1,3-Dichloropropene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Di-isopropyl ether	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Dibromochloromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Dibromomethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Dichlorodifluoromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Ethyl Tert-butyl ether	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Ethylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Hexachlorobutadiene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Isopropylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
m,p-Xylene	ND	7.7	µg/Kg	1	8/1/2011 01:45 PM
Methylene chloride	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
MTBE	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
n-Butylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
n-Propylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Naphthalene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
o-Xylene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
sec-Butylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Styrene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Tert-amyl methyl ether	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Tert-Butanol	ND	77	µg/Kg	1	8/1/2011 01:45 PM
tert-Butylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Tetrachloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Toluene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
trans-1,2-Dichloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Trichloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Trichlorofluoromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Vinyl chloride	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM
Surr: 1,2-Dichloroethane-d4	114	65-141	%REC	1	8/1/2011 01:45 PM
Surr: 4-Bromofluorobenzene	89.3	57-134	%REC	1	8/1/2011 01:45 PM
Surr: Dibromofluoromethane	106	70-128	%REC	1	8/1/2011 01:45 PM
Surr: Toluene-d8	95.0	72-123	%REC	1	8/1/2011 01:45 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-60
Lab Order:	119194	Collection Date:	7/27/2011 12:55:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-003D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110801A	QC Batch: E11VS282	PrepDate: 7/26/2011	Analyst: TP		
GRO	ND	0.71	mg/Kg	1	8/1/2011 03:15 PM
Surr: Bromofluorobenzene (FID)	108	51-161	%REC	1	8/1/2011 03:15 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-60
Lab Order:	119194	Collection Date:	7/27/2011 12:55:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-003G		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110802B	QC Batch: 74666			PrepDate: 8/1/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/3/2011 01:29 AM
ORO	ND	10		mg/Kg	1	8/3/2011 01:29 AM
Surr: p-Terphenyl	92.7	63-152		%REC	1	8/3/2011 01:29 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-GW
Lab Order: 119194	Collection Date: 7/27/2011 11:55:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: GROUNDWATER
Lab ID: 119194-004A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110801A	QC Batch: Q11VW142	PrepDate:	Analyst: BD		
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,1,1-Trichloroethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,1,2-Trichloroethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,1-Dichloroethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,1-Dichloroethene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,1-Dichloropropene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2,3-Trichloropropane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2-Dibromoethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2-Dichlorobenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2-Dichloroethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,2-Dichloropropane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,3-Dichlorobenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,3-Dichloropropane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
1,4-Dichlorobenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
2,2-Dichloropropane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
2-Chlorotoluene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
4-Chlorotoluene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
4-Isopropyltoluene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Benzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Bromobenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Bromodichloromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Bromoform	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Bromomethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Carbon tetrachloride	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Chlorobenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Chloroethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Chloroform	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Chloromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
cis-1,2-Dichloroethene	7.6	0.50	µg/L	1	8/1/2011 08:09 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-GW
Lab Order:	119194	Collection Date:	7/27/2011 11:55:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	GROUNDWATER
Lab ID:	119194-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110801A	QC Batch: Q11VW142	PrepDate:	Analyst: BD		
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Di-isopropyl ether	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Dibromochloromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Dibromomethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Dichlorodifluoromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Ethyl tert-butyl ether	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Ethylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Hexachlorobutadiene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Isopropylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
m,p-Xylene	ND	1.0	µg/L	1	8/1/2011 08:09 PM
Methylene chloride	ND	1.0	µg/L	1	8/1/2011 08:09 PM
MTBE	21	0.50	µg/L	1	8/1/2011 08:09 PM
n-Butylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
n-Propylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Naphthalene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
o-Xylene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
sec-Butylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Styrene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Tert-amyl methyl ether	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Tert-Butanol	ND	10	µg/L	1	8/1/2011 08:09 PM
tert-Butylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Tetrachloroethene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Toluene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Trichloroethene	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Trichlorofluoromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Vinyl chloride	ND	0.50	µg/L	1	8/1/2011 08:09 PM
Surr: 1,2-Dichloroethane-d4	72.6	70-130	%REC	1	8/1/2011 08:09 PM
Surr: 4-Bromofluorobenzene	99.6	70-130	%REC	1	8/1/2011 08:09 PM
Surr: Dibromofluoromethane	87.8	70-130	%REC	1	8/1/2011 08:09 PM
Surr: Toluene-d8	93.6	70-130	%REC	1	8/1/2011 08:09 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-GW
Lab Order:	119194	Collection Date:	7/27/2011 11:55:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	GROUNDWATER
Lab ID:	119194-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC19_110801B	QC Batch: M11VW151	PrepDate:	Analyst: BB		
GRO	ND	0.20	mg/L	1	8/1/2011 07:00 PM
Surr: Bromofluorobenzene (FID)	88.2	70-130	%REC	1	8/1/2011 07:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-GW
Lab Order: 119194	Collection Date: 7/27/2011 11:55:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: GROUNDWATER
Lab ID: 119194-004C	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3510C		EPA 8015B(M)			
RunID: GC16_110804A	QC Batch: 74703			PrepDate: 8/3/2011		Analyst: CBR
DRO	0.60	0.25		mg/L	1	8/4/2011 03:28 PM
ORO	0.52	0.25		mg/L	1	8/4/2011 03:28 PM
Surr: p-Terphenyl	74.7	36-126		%REC	1	8/4/2011 03:28 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-20
Lab Order: 119194	Collection Date: 7/26/2011 1:25:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-006A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_110803D	QC Batch: 74700			PrepDate: 8/3/2011	Analyst: IL	
Antimony	ND	2.0		mg/Kg	1	8/3/2011 02:38 PM
Arsenic	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Barium	37	1.0		mg/Kg	1	8/3/2011 02:38 PM
Beryllium	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Cadmium	1.0	1.0		mg/Kg	1	8/3/2011 02:38 PM
Chromium	21	1.0		mg/Kg	1	8/3/2011 02:38 PM
Cobalt	9.4	1.0		mg/Kg	1	8/3/2011 02:38 PM
Copper	12	2.0		mg/Kg	1	8/3/2011 02:38 PM
Lead	3.5	1.0		mg/Kg	1	8/3/2011 02:38 PM
Molybdenum	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Nickel	20	1.0		mg/Kg	1	8/3/2011 02:38 PM
Selenium	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Silver	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Thallium	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Vanadium	37	1.0		mg/Kg	1	8/3/2011 02:38 PM
Zinc	37	1.0		mg/Kg	1	8/3/2011 02:38 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID: AA1_110803A	QC Batch: 74694			PrepDate: 8/2/2011	Analyst: VV	
Mercury	ND	0.10		mg/Kg	1	8/3/2011 12:07 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

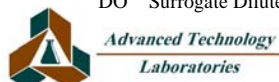
TestCode: 6010_S

Sample ID: MB-74700	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/3/2011	RunNo: 135569						
Client ID: PBS	Batch ID: 74700	TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011	SeqNo: 2220449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	0.061	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	0.111	1.0									
Vanadium	ND	1.0									
Zinc	0.814	1.0									

Sample ID: LCS-74700	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/3/2011	RunNo: 135569						
Client ID: LCSS	Batch ID: 74700	TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011	SeqNo: 2220450						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	48.571	2.0	50.00	0	97.1	80	120				
Arsenic	48.189	1.0	50.00	0	96.4	80	120				
Barium	50.176	1.0	50.00	0.06135	100	80	120				
Cadmium	48.140	1.0	50.00	0	96.3	80	120				
Chromium	46.228	1.0	50.00	0	92.5	80	120				
Cobalt	50.056	1.0	50.00	0	100	80	120				
Copper	49.876	2.0	50.00	0	99.8	80	120				
Lead	49.397	1.0	50.00	0	98.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

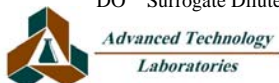
TestCode: 6010_S

Sample ID: LCS-74700		SampType: LCS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569		
Client ID: LCSS		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B				Analysis Date: 8/3/2011		SeqNo: 2220450		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Molybdenum	51.804	1.0	50.00	0	104	80	120					
Nickel	49.619	1.0	50.00	0	99.2	80	120					
Selenium	45.592	1.0	50.00	0	91.2	80	120					
Silver	49.780	1.0	50.00	0	99.6	80	120					
Thallium	47.718	1.0	50.00	0.1108	95.2	80	120					
Vanadium	49.361	1.0	50.00	0	98.7	80	120					
Zinc	48.970	1.0	50.00	0.8136	96.3	80	120					

Sample ID: 119200-012A-MS		SampType: MS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569		
Client ID: ZZZZZZ		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B				Analysis Date: 8/3/2011		SeqNo: 2220469		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Antimony	78.085	2.0	125.0	0.2317	62.3	32	105					
Arsenic	104.342	1.0	125.0	15.63	71.0	49	106					
Barium	184.499	1.0	125.0	86.40	78.5	31	133					
Cadmium	86.706	1.0	125.0	0.5723	68.9	51	103					
Chromium	93.833	1.0	125.0	11.94	65.5	45	114					
Cobalt	94.518	1.0	125.0	3.613	72.7	52	106					
Copper	103.314	2.0	125.0	4.466	79.1	54	125					
Lead	107.580	1.0	125.0	22.83	67.8	34	126					
Molybdenum	88.780	1.0	125.0	0	71.0	54	106					
Nickel	89.365	1.0	125.0	5.873	66.8	45	111					
Selenium	82.027	1.0	125.0	0	65.6	47	104					
Silver	92.089	1.0	125.0	0	73.7	56	112					
Thallium	82.542	1.0	125.0	0	66.0	46	101					
Vanadium	119.977	1.0	125.0	24.17	76.6	54	114					
Zinc	136.924	1.0	125.0	47.39	71.6	28	125					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

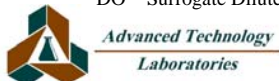
Sample ID: 119200-012A-MSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569	
Client ID: ZZZZZZ		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011		SeqNo: 2220470			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	79.349	2.0	125.0	0.2317	63.3	32	105	78.09	1.61	20	
Arsenic	110.217	1.0	125.0	15.63	75.7	49	106	104.3	5.48	20	
Barium	183.393	1.0	125.0	86.40	77.6	31	133	184.5	0.601	20	
Cadmium	89.366	1.0	125.0	0.5723	71.0	51	103	86.71	3.02	20	
Chromium	97.994	1.0	125.0	11.94	68.8	45	114	93.83	4.34	20	
Cobalt	97.341	1.0	125.0	3.613	75.0	52	106	94.52	2.94	20	
Copper	105.728	2.0	125.0	4.466	81.0	54	125	103.3	2.31	20	
Lead	111.439	1.0	125.0	22.83	70.9	34	126	107.6	3.52	20	
Molybdenum	91.726	1.0	125.0	0	73.4	54	106	88.78	3.26	20	
Nickel	93.075	1.0	125.0	5.873	69.8	45	111	89.36	4.07	20	
Selenium	84.712	1.0	125.0	0	67.8	47	104	82.03	3.22	20	
Silver	94.558	1.0	125.0	0	75.6	56	112	92.09	2.64	20	
Thallium	85.006	1.0	125.0	0	68.0	46	101	82.54	2.94	20	
Vanadium	121.935	1.0	125.0	24.17	78.2	54	114	120.0	1.62	20	
Zinc	139.377	1.0	125.0	47.39	73.6	28	125	136.9	1.78	20	

Sample ID: 119200-012A-MS		SampType: MS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569	
Client ID: ZZZZZZ		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011		SeqNo: 2220475			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	102.454	5.0	125.0	0	82.0	56	106				

Sample ID: 119200-012A-MSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569	
Client ID: ZZZZZZ		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011		SeqNo: 2220476			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	104.805	5.0	125.0	0	83.8	56	106	102.5	2.27	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-74694	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/2/2011	RunNo: 135553						
Client ID: PBS	Batch ID: 74694	TestNo: EPA 7471A		Analysis Date: 8/3/2011	SeqNo: 2220062						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	ND	0.10									
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Sample ID: LCS-74694	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/2/2011	RunNo: 135553						
Client ID: LCSS	Batch ID: 74694	TestNo: EPA 7471A		Analysis Date: 8/3/2011	SeqNo: 2220063						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.750	0.10	0.8300	0	90.3	80	120				
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Sample ID: 119235-003A-MS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/2/2011	RunNo: 135553						
Client ID: ZZZZZ	Batch ID: 74694	TestNo: EPA 7471A		Analysis Date: 8/3/2011	SeqNo: 2220064						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

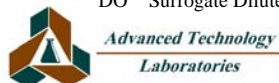
Mercury	0.756	0.10	0.8300	0	91.1	70	130				
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Sample ID: 119235-003A-MSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/2/2011	RunNo: 135553						
Client ID: ZZZZZ	Batch ID: 74694	TestNo: EPA 7471A		Analysis Date: 8/3/2011	SeqNo: 2220065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.750	0.10	0.8300	0	90.4	70	130	0.7564	0.844	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM H

Sample ID: MB-74666	SampType: MBLK	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/1/2011	RunNo: 135542						
Client ID: PBS	Batch ID: 74666	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/3/2011	SeqNo: 2219816						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	ND	10									
ORO	ND	10									
Surr: p-Terphenyl	71.200		80.00		89.0	63	152				

Sample ID: LCS-74666	SampType: LCS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/1/2011	RunNo: 135542						
Client ID: LCSS	Batch ID: 74666	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/3/2011	SeqNo: 2219817						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	833.520	10	1000	0	83.4	76	139				
Surr: p-Terphenyl	73.700		80.00		92.1	63	152				

Sample ID: 119194-002GMS	SampType: MS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/1/2011	RunNo: 135542						
Client ID: E-110-30	Batch ID: 74666	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/3/2011	SeqNo: 2219818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

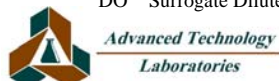
DRO	820.410	10	1000	0	82.0	60	158				
Surr: p-Terphenyl	79.790		80.00		99.7	63	152				

Sample ID: 119194-002GMSD	SampType: MSD	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/1/2011	RunNo: 135542						
Client ID: E-110-30	Batch ID: 74666	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/3/2011	SeqNo: 2219819						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	899.490	10	1000	0	89.9	60	158	820.4	9.20	20	
Surr: p-Terphenyl	78.410		80.00		98.0	63	152		0	0	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

Sample ID: E110801LC1		SampType: LCS		TestCode: 8015_S_G 50		Units: mg/Kg		Prep Date:		RunNo: 135498		
Client ID: LCSS		Batch ID: E11VS282		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2219918				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	4.642	1.0	5.000	0	92.8	70	130					
Surr: Bromofluorobenzene (FID)	120.843		100.0		121	51	161					

Sample ID: E110801MB1MS		SampType: MS		TestCode: 8015_S_G 50		Units: mg/Kg		Prep Date:		RunNo: 135498		
Client ID: ZZZZZ		Batch ID: E11VS282		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2219919				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	4.561	1.0	5.000	0	91.2	41	146					
Surr: Bromofluorobenzene (FID)	116.256		100.0		116	51	161					

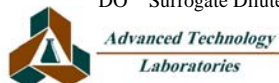
Sample ID: E110801MB1MSD		SampType: MSD		TestCode: 8015_S_G 50		Units: mg/Kg		Prep Date:		RunNo: 135498		
Client ID: ZZZZZ		Batch ID: E11VS282		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2219920				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	4.495	1.0	5.000	0	89.9	41	146	4.561	1.46	20		
Surr: Bromofluorobenzene (FID)	116.599		100.0		117	51	161		0	0		

Sample ID: E110801MB1		SampType: MBLK		TestCode: 8015_S_G 50		Units: mg/Kg		Prep Date:		RunNo: 135498		
Client ID: PBS		Batch ID: E11VS282		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2219921				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	ND	1.0										
Surr: Bromofluorobenzene (FID)	83.730		100.0		83.7	51	161					

Sample ID: 119191-002AMS		SampType: MS		TestCode: 8015_S_G 50		Units: mg/Kg		Prep Date:		RunNo: 135498		
Client ID: ZZZZZ		Batch ID: E11VS282		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2219926				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	3.538	1.0	5.000	0	70.8	41	146					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

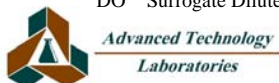
TestCode: 8015_S_G 5035P

Sample ID: 119191-002AMS	SampType: MS	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: ZZZZZZ	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	115.593		100.0		116	51	161				

Sample ID: 119191-002AMSD	SampType: MSD	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: ZZZZZZ	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219927							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.868	1.0	5.000	0	77.4	41	146	3.538	8.91	20	
Surr: Bromofluorobenzene (FID)	117.387		100.0		117	51	161		0	0	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM

Sample ID: MB-74703	SampType: MBLK	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/3/2011	RunNo: 135599						
Client ID: PBW	Batch ID: 74703	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/4/2011	SeqNo: 2220873						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	ND	0.20									
ORO	ND	0.20									
Surr: p-Terphenyl	0.037		0.08000		46.5	36	126				

Sample ID: LCS-74703	SampType: LCS	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/3/2011	RunNo: 135599						
Client ID: LCSW	Batch ID: 74703	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/4/2011	SeqNo: 2220874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.461	0.20	0.5000	0	92.1	52	128				
Surr: p-Terphenyl	0.039		0.08000		48.3	36	126				

Sample ID: MB-74703MS	SampType: MS	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/3/2011	RunNo: 135599						
Client ID: ZZZZZ	Batch ID: 74703	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/4/2011	SeqNo: 2220875						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

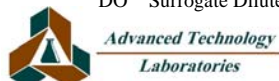
DRO	0.532	0.20	0.5000	0	106	52	128				
Surr: p-Terphenyl	0.048		0.08000		59.7	36	126				

Sample ID: MB-74703MSD	SampType: MSD	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/3/2011	RunNo: 135599						
Client ID: ZZZZZ	Batch ID: 74703	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/4/2011	SeqNo: 2220876						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.481	0.20	0.5000	0	96.2	52	128	0.5317	9.99	20	
Surr: p-Terphenyl	0.038		0.08000		48.1	36	126		0	0	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_G PRES

Sample ID: M110801LCS2		SampType: LCS		TestCode: 8015_W_G P		Units: mg/L		Prep Date:		RunNo: 135493		
Client ID: LCSW		Batch ID: M11VW151		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2218831				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	1.106	0.20	1.000	0	111	70	130					
Surr: Bromofluorobenzene (FID)	91.018		100.0		91.0	70	130					

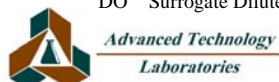
Sample ID: M110801MB1MS		SampType: MS		TestCode: 8015_W_G P		Units: mg/L		Prep Date:		RunNo: 135493		
Client ID: ZZZZZ		Batch ID: M11VW151		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2218833				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	1.098	0.20	1.000	0	110	70	130					
Surr: Bromofluorobenzene (FID)	90.442		100.0		90.4	70	130					

Sample ID: M110801MB1MSD		SampType: MSD		TestCode: 8015_W_G P		Units: mg/L		Prep Date:		RunNo: 135493		
Client ID: ZZZZZ		Batch ID: M11VW151		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2218834				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	1.036	0.20	1.000	0	104	70	130	1.098	5.81	20		
Surr: Bromofluorobenzene (FID)	89.859		100.0		89.9	70	130		0	0		

Sample ID: M110801MB1		SampType: MBLK		TestCode: 8015_W_G P		Units: mg/L		Prep Date:		RunNo: 135493		
Client ID: PBW		Batch ID: M11VW151		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2218835				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	ND	0.20										
Surr: Bromofluorobenzene (FID)	88.225		100.0		88.2	70	130					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

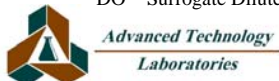
Sample ID: K110801LCS1	SampType: LCS	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 135474						
Client ID: LCSS	Batch ID: K11VS200	TestNo: EPA 8260B		Analysis Date: 8/1/2011	SeqNo: 2220034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	50.640	5.0	50.00	0	101	70	130				
Benzene	97.810	5.0	100.0	0	97.8	70	130				
Chlorobenzene	52.090	5.0	50.00	0	104	70	130				
MTBE	61.640	5.0	50.00	0	123	70	130				
Toluene	97.780	5.0	100.0	0	97.8	70	130				
Trichloroethene	49.750	5.0	50.00	0	99.5	70	130				
Surr: 1,2-Dichloroethane-d4	55.800		50.00		112	65	141				
Surr: 4-Bromofluorobenzene	46.860		50.00		93.7	57	134				
Surr: Dibromofluoromethane	51.130		50.00		102	70	128				
Surr: Toluene-d8	46.710		50.00		93.4	72	123				

Sample ID: K110801MB1MS	SampType: MS	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 135474						
Client ID: ZZZZZ	Batch ID: K11VS200	TestNo: EPA 8260B		Analysis Date: 8/1/2011	SeqNo: 2220035						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	49.230	5.0	50.00	0	98.5	70	130				
Benzene	97.090	5.0	100.0	0	97.1	70	130				
Chlorobenzene	51.750	5.0	50.00	0	104	70	130				
MTBE	60.900	5.0	50.00	0	122	70	130				
Toluene	97.340	5.0	100.0	0	97.3	70	130				
Trichloroethene	49.210	5.0	50.00	0	98.4	70	130				
Surr: 1,2-Dichloroethane-d4	53.210		50.00		106	65	141				
Surr: 4-Bromofluorobenzene	46.480		50.00		93.0	57	134				
Surr: Dibromofluoromethane	51.630		50.00		103	70	128				
Surr: Toluene-d8	46.590		50.00		93.2	72	123				

Sample ID: K110801MB1MSD	SampType: MSD	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 135474						
Client ID: ZZZZZ	Batch ID: K11VS200	TestNo: EPA 8260B		Analysis Date: 8/1/2011	SeqNo: 2220036						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: K110801MB1MSD		SampType: MSD		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 135474	
Client ID: ZZZZZZ		Batch ID: K11VS200		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2220036	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.640	5.0	50.00	0	95.3	70	130	49.23	3.28	20	
Benzene	96.990	5.0	100.0	0	97.0	70	130	97.09	0.103	20	
Chlorobenzene	50.550	5.0	50.00	0	101	70	130	51.75	2.35	20	
MTBE	59.970	5.0	50.00	0	120	70	130	60.90	1.54	20	
Toluene	97.170	5.0	100.0	0	97.2	70	130	97.34	0.175	20	
Trichloroethene	48.820	5.0	50.00	0	97.6	70	130	49.21	0.796	20	
Surr: 1,2-Dichloroethane-d4	52.940		50.00		106	65	141		0	0	
Surr: 4-Bromofluorobenzene	44.580		50.00		89.2	57	134		0	0	
Surr: Dibromofluoromethane	50.720		50.00		101	70	128		0	0	
Surr: Toluene-d8	47.420		50.00		94.8	72	123		0	0	

Sample ID: K110801MB1		SampType: MBLK		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 135474	
Client ID: PBS		Batch ID: K11VS200		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2220037	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: K110801MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 135474						
Client ID: PBS	Batch ID: K11VS200	TestNo: EPA 8260B		Analysis Date: 8/1/2011	SeqNo: 2220037						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: K110801MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 135474						
Client ID: PBS	Batch ID: K11VS200	TestNo: EPA 8260B	Analysis Date: 8/1/2011	SeqNo: 2220037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	55.660		50.00		111	65	141				
Surr: 4-Bromofluorobenzene	43.630		50.00		87.3	57	134				
Surr: Dibromofluoromethane	51.660		50.00		103	70	128				
Surr: Toluene-d8	47.360		50.00		94.7	72	123				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

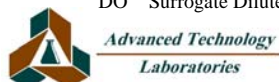
Sample ID: Q110801CS1		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 135509	
Client ID: LCSW		Batch ID: Q11VW142		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2218975	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.890	0.50	20.00	0	84.4	70	130				
Benzene	38.700	0.50	40.00	0	96.8	70	130				
Chlorobenzene	20.100	0.50	20.00	0	101	70	130				
MTBE	21.320	0.50	20.00	0	107	70	130				
Toluene	40.520	0.50	40.00	0	101	70	130				
Trichloroethene	20.050	0.50	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	17.690		25.00		70.8	70	130				
Surr: 4-Bromofluorobenzene	24.030		25.00		96.1	70	130				
Surr: Dibromofluoromethane	20.230		25.00		80.9	70	130				
Surr: Toluene-d8	22.470		25.00		89.9	70	130				

Sample ID: Q110801MB3MS		SampType: MS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 135509	
Client ID: ZZZZZ		Batch ID: Q11VW142		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2218976	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.840	0.50	20.00	0	84.2	70	130				
Benzene	38.590	0.50	40.00	0	96.5	70	130				
Chlorobenzene	19.930	0.50	20.00	0	99.7	70	130				
MTBE	22.020	0.50	20.00	0	110	70	130				
Toluene	40.080	0.50	40.00	0	100	70	130				
Trichloroethene	20.220	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	18.080		25.00		72.3	70	130				
Surr: 4-Bromofluorobenzene	24.460		25.00		97.8	70	130				
Surr: Dibromofluoromethane	20.500		25.00		82.0	70	130				
Surr: Toluene-d8	22.550		25.00		90.2	70	130				

Sample ID: Q110801MB3MSD		SampType: MSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 135509	
Client ID: ZZZZZ		Batch ID: Q11VW142		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2218977	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec

Work Order: 119194

Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

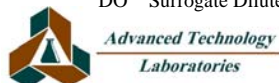
TestCode: 8260_WP_LL

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.150	0.50	20.00	0	85.8	70	130	16.84	1.82	20	
Benzene	39.160	0.50	40.00	0	97.9	70	130	38.59	1.47	20	
Chlorobenzene	19.760	0.50	20.00	0	98.8	70	130	19.93	0.857	20	
MTBE	21.440	0.50	20.00	0	107	70	130	22.02	2.67	20	
Toluene	40.360	0.50	40.00	0	101	70	130	40.08	0.696	20	
Trichloroethene	20.200	0.50	20.00	0	101	70	130	20.22	0.0990	20	
Surr: 1,2-Dichloroethane-d4	17.940		25.00		71.8	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.000		25.00		96.0	70	130		0	0	
Surr: Dibromofluoromethane	20.510		25.00		82.0	70	130		0	0	
Surr: Toluene-d8	22.720		25.00		90.9	70	130		0	0	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110801MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 135509						
Client ID: PBW	Batch ID: Q11VW142	TestNo: EPA 8260B		Analysis Date: 8/1/2011	SeqNo: 2218978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Di-isopropyl ether	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110801MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 135509						
Client ID: PBW	Batch ID: Q11VW142	TestNo: EPA 8260B	Analysis Date: 8/1/2011	SeqNo: 2218978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	1.0									
MTBE	ND	0.50									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
Tert-amyl methyl ether	ND	0.50									
Tert-Butanol	ND	10									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	19.160		25.00		76.6	70	130				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	70	130				
Surr: Dibromofluoromethane	22.100		25.00		88.4	70	130				
Surr: Toluene-d8	23.170		25.00		92.7	70	130				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES
 3275 Walnut Ave., Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: 201106374 Quote #: _____
 Logged By: _____ Date: 7/29/11
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:
 Method of Transport
 Client ATL
 FedEx OnTrac
 GSO
 Other: _____

Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: MACTEC
 Attn: MATT FRAYCHINEAUD
 Address: 5628 E. SLAUSON AVE
 City: LOS ANGELES State: CA Zip Code: 90040
 TEL: _____ FAX: _____

Project #: 4953-10-1561 Sampler: DUAN D. SWIDER
 Relinquished by: (Signature and Printed Name) MATTHEW BLANCHARD
 Date: 7-28-11 Time: 7:00 Received by: (Signature and Printed Name) MATT FRAYCHINEAUD
 Date: 7-28-11 Time: 10:30 Received by: (Signature and Printed Name) MATT FRAYCHINEAUD
 Date: 7-29-11 Time: 11:35 Received by: (Signature and Printed Name) FRDIWA

Relinquished by: (Signature and Printed Name) _____
 Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____
 Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: MATT FRAYCHINEAUD
 Print Name: MATT FRAYCHINEAUD Date: 7/28/11
 Signature: [Signature]

Bill To: _____
 Attn: _____
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments:
FRDIWA

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
1		E-110-15	7/26	13:15
2		E-110-30	7/26	14:10
3		E-110-60	7/27	12:55
4		E-110-6W	7/27	11:55
5		E-110-10	7/26	13:00
6		E-110-20	7/26	13:25
7		E-110-25	7/26	13:35
8		E-110-35	7/27	10:00
9		E-110-40	7/27	10:20
10		E-110-50	7/27	12:20

Circle or Add Analysis(es) Requested

8081A (Pesticides)	X
8260B (Vollies) + OXY	X
8270C (BNA)	X
8010B (Total Metal)	X
8015B (GRO) / 8021 (BTEX)	X
8015B (DRO) / 8022 / CAM 17 (6010 / 7000)	X
TITLE 22 / CAM 17 (6010 / 7000)	X

SPECIFY APPROPRIATE MATRIX

MATRIX	SEMI	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS
SEDIMENT	X							
SOLID	X							
SOIL	X							
DRINKING WATER								
GROUND WATER								
WASTEWATER								
STORMWATER								
AQUEOUS								

QA / QC

RTNE	<input type="checkbox"/>
CT	<input type="checkbox"/>
Legal	<input type="checkbox"/>
SWRCB Logcode	<input type="checkbox"/>
OTHER	

LAB USE ONLY:

Batch #:	Lab No.	Sample I.D. / Location	Date	Time
19194	007	E-110-15	7/26	13:15
	2	E-110-30	7/26	14:10
	3	E-110-60	7/27	12:55
	4	E-110-6W	7/27	11:55
	5	E-110-10	7/26	13:00
	6	E-110-20	7/26	13:25
	7	E-110-25	7/26	13:35
	8	E-110-35	7/27	10:00
	9	E-110-40	7/27	10:20
	10	E-110-50	7/27	12:20

CONTAINER INFORMATION

Container #	Type	Remarks
E 7 TV	TV	Hold
E 7 TV	TV	Hold
E 7 TV	TV	Hold
E 6 JV	JV	Hold
1 T	T	Hold
1 T	T	Hold
1 T	T	Hold
1 T	T	Hold
1 T	T	Hold

LAB USE ONLY:
 TAT: A= Overnight ≤ 24 hrs
 B= Emergency Next workday
 C= Critical 2 Workdays
 D= Urgent 3 Workdays
 E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Becliar G=Glass P=Plastic M=Metal

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Figure I-1.384

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES
 3275 Walnut Ave., Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: 201106374 Quote #: _____
 Logged By: _____ Date: _____

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:
 Method of Transport: Client ATL FedEx OnTrac
 Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: MACTEC Address: 5628 E. SLAWSON AVE TEL: _____
 Attn: MATT FRAYCHINEAUD City: LOS ANGELES State: CA Zip Code: 90040 FAX: _____

Project Name: METRO WESTSIDE EXTENSION Project #: 4953-10-1561 Sampler: DUAN D. SWIDER
 Relinquished by: Duan D. Swider Date: 7-28-11 Time: 7:00 Received by: Matt Fraychineaud Date: 7/28/11 Time: 0700
 Relinquished by: Matt Fraychineaud Date: 7/28/11 Time: 1030 Received by: Matt Fraychineaud Date: 7/29/11 Time: 1036
 Relinquished by: Matt Fraychineaud Date: 7/29/11 Time: 1135 Received by: Matt Fraychineaud Date: 7/29/11 Time: 1036

I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: Matt Fraychineaud
 Signature: Matt Fraychineaud Date: 7/28/11

Special Instructions/Comments: _____

Circle or Add Analysis(es) Requested:
 8082 (PCB) 8250B (Volatiles) 8270C (BNA) 8010B (Total Metal) 8015B (GRO) / 8021 (BTEX) 8015B (DRO) / 8020 TITLE 22 / CAM 17 (6010 / 7000)

LAB USE ONLY: Batch #:	Lab No.	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX						TAT #	Type	CONTAINERIZATION	Q A / Q C	
						SEDIMENT	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER					AQUEOUS
	119194-	11	E-110-55	7/27	12:40								1	T	Hold	
		12	E-110-65	7/27	13:15								1	T	Hold	
		13	E-110-70	7/27	13:35								1	T	Hold	
		14	E-110-75	7/27	14:00								1	T	Hold	

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hrs B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Figure I-1.385

August 11, 2011



Matt Fraychineaud
Mactec
5628 E. Slauson Avenue,
Los Angeles, CA 90040-2922
TEL: (323) 889-5300
FAX:

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 119195

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on July 29, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT: Mactec **Client Sample ID:** E-111-30
Lab Order: 119195 **Collection Date:** 7/28/2011 10:30:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119195-008A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1,1-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1,2-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dibromoethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,3-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
2,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
2-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
4-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
4-Isopropyltoluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Benzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromodichloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromoform	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromomethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Carbon tetrachloride	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chloroform	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT: Mactec	Client Sample ID: E-111-30
Lab Order: 119195	Collection Date: 7/28/2011 10:30:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119195-008A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
cis-1,3-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Di-isopropyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Dibromochloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Dibromomethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Ethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Hexachlorobutadiene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Isopropylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
m,p-Xylene	ND	10	µg/Kg 1 8/9/2011 02:16 PM
Methylene chloride	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
MTBE	11	5.0	µg/Kg 1 8/9/2011 02:16 PM
n-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
n-Propylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Naphthalene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
o-Xylene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
sec-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Styrene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Tert-Butanol	ND	100	µg/Kg 1 8/9/2011 02:16 PM
tert-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Tetrachloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Toluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Trichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Trichlorofluoromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Vinyl chloride	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC 1 8/9/2011 02:16 PM
Surr: 4-Bromofluorobenzene	90.0	70-130	%REC 1 8/9/2011 02:16 PM
Surr: Dibromofluoromethane	106	70-130	%REC 1 8/9/2011 02:16 PM
Surr: Toluene-d8	96.2	70-130	%REC 1 8/9/2011 02:16 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT: Mactec	Client Sample ID: E-111-45
Lab Order: 119195	Collection Date: 7/28/2011 11:45:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119195-010A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1,1-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1,2-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dibromoethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,3-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
2,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
2-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
4-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
4-Isopropyltoluene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Benzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromodichloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromoform	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromomethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Carbon tetrachloride	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chloroform	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT: Mactec **Client Sample ID:** E-111-45
Lab Order: 119195 **Collection Date:** 7/28/2011 11:45:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119195-010A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110809A	QC Batch:	T11VS141	PrepDate:	Analyst:	DDL
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Di-isopropyl ether	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Dibromomethane	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
m,p-Xylene	ND	10	µg/Kg	1	8/9/2011 02:34 PM	
Methylene chloride	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
MTBE	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Naphthalene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
o-Xylene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Styrene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Tert-Butanol	ND	100	µg/Kg	1	8/9/2011 02:34 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Toluene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Trichloroethene	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	8/9/2011 02:34 PM	
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	1	8/9/2011 02:34 PM	
Surr: 4-Bromofluorobenzene	88.2	70-130	%REC	1	8/9/2011 02:34 PM	
Surr: Dibromofluoromethane	111	70-130	%REC	1	8/9/2011 02:34 PM	
Surr: Toluene-d8	96.6	70-130	%REC	1	8/9/2011 02:34 PM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119195
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

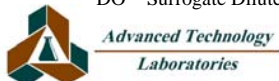
Sample ID: T110809LCS1		SampType: LCS		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687		
Client ID: LCSS		Batch ID: T11VS141		TestNo: EPA 8260B				Analysis Date: 8/9/2011		SeqNo: 2222703		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	54.850	5.0	50.00	0	110	70	130					
Benzene	104.320	5.0	100.0	0	104	70	130					
Chlorobenzene	55.290	5.0	50.00	0	111	82	130					
MTBE	59.830	5.0	50.00	0	120	70	130					
Toluene	107.450	5.0	100.0	0	107	70	130					
Trichloroethene	54.850	5.0	50.00	0	110	77	130					
Surr: 1,2-Dichloroethane-d4	52.650		50.00		105	70	130					
Surr: 4-Bromofluorobenzene	42.710		50.00		85.4	70	130					
Surr: Dibromofluoromethane	56.840		50.00		114	70	130					
Surr: Toluene-d8	49.440		50.00		98.9	70	130					

Sample ID: T110809MB1MS		SampType: MS		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687		
Client ID: ZZZZZZ		Batch ID: T11VS141		TestNo: EPA 8260B				Analysis Date: 8/9/2011		SeqNo: 2222704		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	52.770	5.0	50.00	0	106	70	130					
Benzene	103.860	5.0	100.0	0	104	70	130					
Chlorobenzene	54.000	5.0	50.00	0	108	70	130					
MTBE	57.080	5.0	50.00	0	114	70	130					
Toluene	107.840	5.0	100.0	0	108	70	130					
Trichloroethene	54.200	5.0	50.00	0	108	70	130					
Surr: 1,2-Dichloroethane-d4	49.220		50.00		98.4	70	130					
Surr: 4-Bromofluorobenzene	44.340		50.00		88.7	70	130					
Surr: Dibromofluoromethane	53.530		50.00		107	70	130					
Surr: Toluene-d8	49.490		50.00		99.0	70	130					

Sample ID: T110809MB1MSD		SampType: MSD		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687		
Client ID: ZZZZZZ		Batch ID: T11VS141		TestNo: EPA 8260B				Analysis Date: 8/9/2011		SeqNo: 2222705		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119195
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

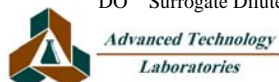
TestCode: 8260_S

Sample ID: T110809MB1MSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222705						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	53.470	5.0	50.00	0	107	70	130	52.77	1.32	20	
Benzene	101.880	5.0	100.0	0	102	70	130	103.9	1.92	20	
Chlorobenzene	54.910	5.0	50.00	0	110	70	130	54.00	1.67	20	
MTBE	57.330	5.0	50.00	0	115	70	130	57.08	0.437	20	
Toluene	108.000	5.0	100.0	0	108	70	130	107.8	0.148	20	
Trichloroethene	54.360	5.0	50.00	0	109	70	130	54.20	0.295	20	
Surr: 1,2-Dichloroethane-d4	48.270		50.00		96.5	70	130		0	0	
Surr: 4-Bromofluorobenzene	43.260		50.00		86.5	70	130		0	0	
Surr: Dibromofluoromethane	55.470		50.00		111	70	130		0	0	
Surr: Toluene-d8	49.950		50.00		99.9	70	130		0	0	

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 119195
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

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|---|--|--|
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ANALYTICAL QC SUMMARY REPORT

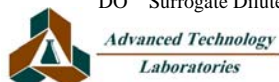
TestCode: 8260_S

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	52.090		50.00		104	70	130				
Surr: 4-Bromofluorobenzene	44.270		50.00		88.5	70	130				
Surr: Dibromofluoromethane	54.170		50.00		108	70	130				
Surr: Toluene-d8	49.310		50.00		98.6	70	130				

Sample ID: 119294-001AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.240	5.0	50.00	0	94.5	70	130				
Benzene	89.930	5.0	100.0	0	89.9	70	130				
Chlorobenzene	47.710	5.0	50.00	0	95.4	70	130				
MTBE	49.950	5.0	50.00	0	99.9	70	130				

Qualifiers:

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|---|--|--|
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CLIENT: Mactec
Work Order: 119195
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: 119294-001AMS		SampType: MS		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687	
Client ID: ZZZZZZ		Batch ID: T11VS141		TestNo: EPA 8260B		Analysis Date: 8/9/2011				SeqNo: 2222708	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	93.310	5.0	100.0	0	93.3	70	130				
Trichloroethene	45.710	5.0	50.00	0	91.4	70	130				
Surr: 1,2-Dichloroethane-d4	52.940		50.00		106	70	130				
Surr: 4-Bromofluorobenzene	44.410		50.00		88.8	70	130				
Surr: Dibromofluoromethane	57.250		50.00		114	70	130				
Surr: Toluene-d8	48.490		50.00		97.0	70	130				

Sample ID: 119294-001AMSD		SampType: MSD		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687	
Client ID: ZZZZZZ		Batch ID: T11VS141		TestNo: EPA 8260B		Analysis Date: 8/9/2011				SeqNo: 2222709	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	40.830	5.0	50.00	0	81.7	70	130	47.24	14.6	20	
Benzene	78.930	5.0	100.0	0	78.9	70	130	89.93	13.0	20	
Chlorobenzene	41.160	5.0	50.00	0	82.3	70	130	47.71	14.7	20	
MTBE	44.230	5.0	50.00	0	88.5	70	130	49.95	12.1	20	
Toluene	82.810	5.0	100.0	0	82.8	70	130	93.31	11.9	20	
Trichloroethene	41.710	5.0	50.00	0	83.4	70	130	45.71	9.15	20	
Surr: 1,2-Dichloroethane-d4	49.650		50.00		99.3	70	130		0	0	
Surr: 4-Bromofluorobenzene	43.190		50.00		86.4	70	130		0	0	
Surr: Dibromofluoromethane	55.180		50.00		110	70	130		0	0	
Surr: Toluene-d8	46.830		50.00		93.7	70	130		0	0	

Qualifiers:

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|---|--|--|
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