

## HORIZONTAL DIRECTIONAL DRILL (HDD) & GUIDED AUGER BORE (GAB)

## **PROJECT HISTORY REPORT**



- 1. Edgewood, Washington HDD 1500' of 12" Infrasource Services, LLC. Completed December 2024
- 2. Pendelton, Oregon HDD 1300' of 8" Blue Sky Construction Completed December 2024
- 3. White City, Oregon GAB 100' of 48" Central Pipeline Completed December 2024
- Sanger, California Hammer Bore 40' of 8" Pacific Gas and Electric Completed November 2024
- 5. Napa, California GAB 91' of 26" Pacific Gas and Electric Completed October 2024
- 6. Sumner, Washington HDD 1800' of 24" Potelco Inc. Completed October 2024
- 7. Petaluma, California 12" Hammer Extraction Barnard Pipeline Completed October 2024
- Newfoundland, Canada HDD Beach Approach (5 Total) Ranging from 4500' 5000' Completed October 2024
- Chico, California HDD Approximately 736' of 12" Pacific Gas and Electric Completed August 2024
- 10. Eureka, California HDD 750' of 6" Barnard Pipeline Completed August 2024
- 11. Crocket (Eckley Pier), California HDD 800' of 8' Primoris Services Corporation Completed July 2024
- 12. Bend, Oregon 703' and 1427' of 6" Michels Corporation Completed February 2024
- 13. Redding, California HDD 800' of 4" Pacific Gas and Electric Completed January 2024
- Oroville, California HDD Multiple Electrical Conduit Packages Underground Construction Company – Completed December 2023
- 15. Paradise, California HDD Multiple Electrical Conduit Packages MGE Underground Completed November 2023
- Petaluma, California HDD 1375' 16" Steel Pacific Gas and Electric via Barnard Pipeline Completed – November 2023
- 17. Redmond, Washington HDD 2000' (2) 6" and (2) 4" Electrical Conduit Bundles Puget Sound Energy via Potelco Inc. – Completed October 2023
- 18. Lodi, California (R-1846) GAB 196' 6" Steel Pacific Gas and Electric Completed October 2023
- 19. Oakland, California 511' 14" HDPE LTEC Leo Tidwell Excavating Completed September 2023
- Fife, Washington 600' 16" Steel Puget Sound Energy via InfraSource Services, LLC Completed September 2023
- 21. Meridian, California 1189' 4" under the Sacramento River Pacific Gas and Electric via Snelson Companies – Completed August 2023



- Aberdeen, Washington 1846' 680' 1047' all 8" HDDs 40GPM Groundwater with 200' elevation difference from entry to exit locations – Puget Sound Energy via InfraSource Services, LLC – Completed May 2023
- 23. Rio Vista, California 3700' 16" under the Sacramento River with negative elevation intersect bore Pacific Gas and Electric via Primoris Services (ARB) Completed July 2023
- 24. Florida, USA HDD Beach Approach Completed September 2023
- 25. Umatilla, Oregon HDD 1280' 14" Steel Team Fishel Completed June 2023
- Loleta, California HDD 1100' 4" Steel Pacific Gas and Electric via Barnard Pipeline Completed May 2023
- 27. Middletown, California GAB 180' 24" Steel Pacific Gas and Electric Completed April 2023
- 28. Caldwell, Idaho GAB 155' 24" and 95' 30" Granite Excavation Completed February 2023
- 29. King County, Washington HDD 1131' 4" HDD Puget Sound Energy via InfraSource Services, LLC Completed January 2023
- Kirkland, Washington HDD 738' and 769 8" HDDs Puget Sound Energy via InfraSource Services, LLC - Completed November 2022
- Gig Harbor, Washington Burnham Drive HDD 753' 8" HDD Puget Sound Energy via InfraSource Services, LLC - Completed October 2022
- Cannon Beach, Oregon GAB 100' 4" Northwest Natural Gas Company via InfraSource Services, LLC - Completed October 2022
- 33. Gig Harbor, Washington SR16 HDD 746' 6" HDD Puget Sound Energy via InfraSource Services, LLC Completed October 2022
- Turlock, California HDD 1100' 10" Pacific Gas and Electric via Snelson Companies Completed September 2022
- 35. Renton, Washington I-405 GAB 260' 36" Puget Sound Energy via InfraSource Services, LLC Completed September 2022
- Sumner, Washington Intersect HDD 2773' 20" HDD Puget Sound Energy via InfraSource Services, LLC - Completed September 2022
- Salem, Oregon HDD 920' 8" Northwest Natural Gas Company via Michels Pipeline Completed August 2022
- West Sacramento, California HDD 2475' of 12" Level 3 Communications Completed July 2022
- Yakima, Washington HDD Multiple bores 625' & 1,145' of 8" Cascade Natural Gas Completed July 2022
- 40. New Cuyama, California HDD 700' of 8" SoCal Gas Completed June 2022
- North Highlands, California GAB 235' of 12" Pacific Gas & Electric Completed May 2022



- 42. Boardman, Oregon HDD 800' of 16" Windwave Communications Completed April 2022
- St. Helena, California GAB Multiple bores 80', 80', 140' & 255' of 8" Pacific Gas & Electric Completed April 2022
- 44. Poway, California GAB 130' of 16" San Diego Gas & Electric Completed January 2022
- 45. Arlington, Washington HDD 2,800' of 6" Cascade Natural Gas Completed December 2021
- 46. Junction City, Oregon HDD 1,270' of 12" Kinder Morgan Completed December 2021
- Brentwood, California HDD 2,036' of 24" Pacific Gas and Electric Completed November 2021
- Merced, California GAB 85' of 6" Pacific Gas and Electric Completed October 2021
- 49. Eureka, California GAB 260' of 4" Pacific Gas and Electric Completed July 2021
- 50. Fresno, California GAB 200' of 18" Kinder Morgan Completed July 2021
- 51. Chowchilla, California GAB 227' of 12" Pacific Gas and Electric Completed April 2021
- 52. Patterson, California HDD 7,215' of 24" Pacific Gas and Electric Completed February 2021
- 53. Bakersfield, California GAB 240' of 12" Pacific Gas and Electric Completed February 2021
- 54. Bakersfield, California GAB 280' of 12" Pacific Gas and Electric Completed January 2021
- 55. Reedsport, Oregon HDD 4,340' of 5.5" Zayo Group Completed December 2020
- 56. Florence, Oregon HDD 2,005' of 5.5" Zayo Group Completed December 2020
- 57. Clackamas, Oregon HDD 1,400' of 12" NW Natural Completed October 2020
- 58. Kelso, Washington HDD 800' of 4" Cascade Natural Gas Completed October 2020
- 59. Kalama, Washington HDD 2,400' of 4" Cascade Natural Gas Completed October 2020



- 60. Sandy, Oregon HDD 10,500' of 8" Multiple Bores (14 Total) NW Natural Completed September 2020
- 61. Hillsboro, Oregon HDD 1,400' of 8" NW Natural Completed September 2020
- 62. Ukiah, California HDD 800' of 8" Pacific Gas and Electric Completed August 2020
- 63. Chandler, Oklahoma HDD 3,750' of 24" Plains All American Completed July 2020
- 64. Lodi, California HDD 1,011' of 4" Pacific Gas and Electric Completed July 2020
- 65. Chino, California HDD 1,600' of 36" So Cal Gas Completed April 2020
- 66. Santa Margarita, California HDD 620' & 700' of 10" So Cal Gas Completed April 2020
- 67. Santa Margarita, California GAB 160' of 16" So Cal Gas Completed April 2020
- 68. Bakersfield, California HDD 200' of 12" So Cal Gas Completed February 2020
- 69. California HDD Beach Approach Approximately 4,000' Completed January 2020
- 70. San Luis Obispo, California GAB 40' of 10" So Cal Gas Completed January 2020
- 71. Fort Lupton, Colorado HDD Multiple Bores (15 total) Ranging From 444' to 1,185' of 4" Completed December 2019
- 72. Enumclaw, Washington HDD 1,525' of 6" City of Enumclaw Completed December 2019
- 73. Salinas, California HDD 1,206' of 12" Pacific Gas and Electric Completed October 2019
- 74. Pueblo, Colorado HDD 1,332' of 4" Xcel Energy Completed October 2019
- 75. American Canyon, California GAB 160' & 350' of 24" Pacific Gas and Electric Completed August 2019
- Santa Margarita, California HDD 1,391' of 16" So Cal Gas Completed August 2019
- 77. Wasco, California HDD 1,848' & 2,661' of 8" California Rail Builders Completed August 2019



- Willows, California GAB 130' of 4" Pacific Gas and Electric Completed June 2019
- Hawaii HDD Beach Approach (6 total) Ranging from 3,000' to 6,500' June 2018 - May 2019
- Victorville, California HDD 1,234' & 1,365' of 10" Pacific Gas and Electric Completed February 2019
- California HDD Beach Approach 4,000' Completed February 2019
- Fremont, California HDD 4,800' of 36" Pacific Gas and Electric Completed December 2018
- Brighton, Colorado HDD 880' of 8" Xcel Energy Completed November 2018
- Aurora, Colorado HDD 1,100' of 20" Xcel Energy Completed October 2018
- Thornton, California HDD 3,000' of 24" Pacific Gas and Electric Completed October 2018
- Thornton, California GAB 1,455' of 24" Pacific Gas and Electric Completed October 2018
- 87. San Mateo, California HDD 2,400' of 24" Pacific Gas and Electric Completed August 2018
- San Mateo, California HDD 1,800' & 2,900' of 16" Verizon Completed August 2018
- Puerto Rico HDD Beach Approach 2,500' Completed August 2018
- Oregon HDD Beach Approach (2 total) 5,500' Completed July 2018
- Burnsville-Black Dog, Minnesota GAB 150' of 16" Xcel Energy Completed March 2018
- 92. Barstow-Kramer Junction, California GAB 130' of 34" Pacific Gas and Electric Completed February 2018
- Pueblo West, Colorado HDD 2,400' of 6" Xcel Energy Completed January 2018
- 94. Camas, Washington HDD 605' of 6" NW Natural Completed November 2017
- 95. Tracy, California GAB 150' of 20 380' of 36" Shell Completed October 2017
- 96. La Grande, Oregon HDD 1,300' of 6" Avista Utilities Completed September 2017



- 97. Tacoma, Washington HDD 13,000' of 16" Puget Sound Energy Completed September 2017
- Turlock, California HDD 800' of 12" Pacific Gas and Electric Completed September 2017
- 99. Sacramento, California HDD 2,450' of 30" Pacific Gas and Electric Completed August 2017
- 100. Richland-Kennewick, Washington HDD 3,790' of 6" Cascade Natural Gas Completed – August 2017
- 101. The Dalles, Oregon HDD 677' of 6" NW Natural Gas Completed April 2017
- 102. Buttonwillow, California HDD 305' of 12" SoCal Gas Completed January 2017
- 103. Knappa, Oregon HDD 1,065' of 10" NW Natural Completed October 2016
- 104. Sonoma, California HDD 800' of 6" Pacific Gas and Electric Completed September 2016
- 105. Lemoore, California HDD 5,740' of 16" SoCal Gas Completed 2016
- 106. Lemoore, California GAB 116' of 16" SoCal Gas Completed 2016
- 107. Bakersfield, California GAB 1,054' of 12" SoCal Gas Completed 2016
- 108. Santa Clarita, California HDD 1900' of 14" Plains Pipeline Completed February 2016 – Various Sandstone Layers
- 109. Castaic, California HDD 2,148' of 14" Plains Pipeline Completed February 2016 – Various Sandstone Layers
- 110. Larkspur, California HDD 700' of 30" HDPE City of Larkspur Completed September 2015 - Fat Clay
- 111. Elk Grove, California HDD 3600' of 24" Pacific Gas and Electric Completed January 2015 - Soft\Fat Clay
- 112. Elk Grove, California HDD 2300' of 24" Pacific Gas and Electric Completed December 2014 - Soft\Fat Clay
- 113. Vacaville, California HDD 1708' of 42" Pacific Gas and Electric Completed November 2014 – Fat Clay under Wetland with Intersect
- 114. Roseville, California HDD 3300' of 16" Pacific Gas and Electric Completed September of 2014



- 115. Roseville, California HDD 3600' of 16" Pacific Gas and Electric Completed October of 2014
- 116. Albany, Oregon HDD 3200' of 30" HDPE City of Albany October 2012 – Solid Rock under Willamette and Calapooia River
- 117. Corvallis\Monmouth, Oregon HDD 1200',3400',4200',5200' of 12" NW Natural Gas Completed May 2012 - Fat Clay under City of Monmouth
- 118. Sunnyvale, California HDD 950' of 24" Pacific Gas and Electric Completed July 2012 Fat Clay – Bay Mud
- 119. Sunnyvale, California HDD 2800' of 24" Pacific Gas and Electric Completed August 2012 – Fat Clay – Bay Mud
- 120. Monmouth, Oregon HDD 4300' of 12" NW Natural Gas Completed April 2012 – Fat Clay under Environmentally Sensitive Farmland
- 121. Fresno, California HDD 2000' of 24" Pacific Gas and Electric Completed November 2012
- 122. Medford, Oregon HDD 2800' 12" Avista Utilities Completed November 2010 – Sandstone Intersect under Larson Creek
- 123. Grants Pass, Oregon HDD 3000' 6" HDPE Avista Utilities Completed November 2010 – Sandstone\Cobble under the Rogue River
- 124. Cranberry Township, Pennsylvania HDD
  3000' of 12" Charles Machine Works / Ditch Witch
  Completed February 2012 Fractured Rock
- 125. Avon, Colorado 2800' of 16" HDD Xcel Energy Completed December 2011 – Cemented Cobble – Emergency Bore