

CC EDD by Date

ClientID	SampID	ClientSampID	AnalDate	TestNo	CAS
MARATHC	2010111-006a	1A Carbon Canis	10/3/2020	SW8260B	71-43-2
MARATHC	2010111-006a	1A Carbon Canis	10/3/2020	SW8260B	100-41-4
MARATHC	2010111-006a	1A Carbon Canis	10/3/2020	SW8260B	1634-04-4
MARATHC	2010111-006a	1A Carbon Canis	10/3/2020	SW8260B	108-88-3
MARATHC	2010111-006a	1A Carbon Canis	10/3/2020	SW8260B	1330-20-7
MARATHC	2010111-006B	1A Carbon Canis	10/6/2020	SW8015	TPH-DRO
MARATHC	2010111-006C	1A Carbon Canis	10/5/2020	M2510 B	eC
MARATHC	2010111-006C	1A Carbon Canis	10/5/2020	M4500-H+B	pH
MARATHC	2010111-006C	1A Carbon Canis	10/6/2020	E300	24959-67-9
MARATHC	2010111-006C	1A Carbon Canis	10/6/2020	E300	7723-14-0
MARATHC	2010111-006C	1A Carbon Canis	10/6/2020	E300	16887-00-6
MARATHC	2010111-006C	1A Carbon Canis	10/6/2020	E300	14808-79-8
MARATHC	2010111-006C	1A Carbon Canis	10/6/2020	E300	NO3NO2N
MARATHC	2010111-006C	1A Carbon Canis	10/7/2020	E300	16984-48-8
MARATHC	2010111-006D	1A Carbon Canis	10/6/2020	E200.7	7440-70-2
MARATHC	2010111-006D	1A Carbon Canis	10/6/2020	E200.7	7439-95-4
MARATHC	2010111-006D	1A Carbon Canis	10/6/2020	E200.7	7440-09-7
MARATHC	2010111-006D	1A Carbon Canis	10/6/2020	E200.7	7440-23-5
MARATHC	2010500-001a	Carbon Canister	10/11/2020	SW8260B	71-43-2
MARATHC	2010500-001a	Carbon Canister	10/11/2020	SW8260B	100-41-4
MARATHC	2010500-001a	Carbon Canister	10/11/2020	SW8260B	1634-04-4
MARATHC	2010500-001a	Carbon Canister	10/11/2020	SW8260B	108-88-3
MARATHC	2010500-001a	Carbon Canister	10/11/2020	SW8260B	1330-20-7
MARATHC	2010500-001B	Carbon Canister	10/10/2020	SW8015	TPH-DRO
MARATHC	2010500-001C	Carbon Canister	10/12/2020	M4500-H+B	pH
MARATHC	2010500-001C	Carbon Canister	10/12/2020	M2510 B	eC
MARATHC	2010500-001C	Carbon Canister	10/12/2020	E300	24959-67-9
MARATHC	2010500-001C	Carbon Canister	10/12/2020	E300	7723-14-0
MARATHC	2010500-001C	Carbon Canister	10/12/2020	E300	16887-00-6
MARATHC	2010500-001C	Carbon Canister	10/12/2020	E300	16984-48-8
MARATHC	2010500-001C	Carbon Canister	10/12/2020	E300	14808-79-8
MARATHC	2010500-001C	Carbon Canister	10/12/2020	E300	NO3NO2N
MARATHC	2010500-001D	Carbon Canister	10/13/2020	E200.7	7440-70-2
MARATHC	2010500-001D	Carbon Canister	10/13/2020	E200.7	7439-95-4
MARATHC	2010500-001D	Carbon Canister	10/13/2020	E200.7	7440-09-7
MARATHC	2010500-001D	Carbon Canister	10/13/2020	E200.7	7440-23-5
MARATHC	2010500-002a	Carbon Canister	10/11/2020	SW8260B	71-43-2
MARATHC	2010500-002a	Carbon Canister	10/11/2020	SW8260B	100-41-4
MARATHC	2010500-002a	Carbon Canister	10/11/2020	SW8260B	1634-04-4
MARATHC	2010500-002a	Carbon Canister	10/11/2020	SW8260B	108-88-3
MARATHC	2010500-002a	Carbon Canister	10/11/2020	SW8260B	1330-20-7
MARATHC	2010500-002B	Carbon Canister	10/10/2020	SW8015	TPH-DRO
MARATHC	2010500-002C	Carbon Canister	10/12/2020	M4500-H+B	pH
MARATHC	2010500-002C	Carbon Canister	10/12/2020	M2510 B	eC
MARATHC	2010500-002C	Carbon Canister	10/12/2020	E300	24959-67-9
MARATHC	2010500-002C	Carbon Canister	10/12/2020	E300	7723-14-0
MARATHC	2010500-002C	Carbon Canister	10/12/2020	E300	16887-00-6
MARATHC	2010500-002C	Carbon Canister	10/12/2020	E300	16984-48-8
MARATHC	2010500-002C	Carbon Canister	10/12/2020	E300	14808-79-8
MARATHC	2010500-002C	Carbon Canister	10/12/2020	E300	NO3NO2N
MARATHC	2010500-002D	Carbon Canister	10/13/2020	E200.7	7440-70-2

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MARATHC 2010500-002D	Carbon Canister	10/13/2020	E200.7	7439-95-4
MARATHC 2010500-002D	Carbon Canister	10/13/2020	E200.7	7440-09-7
MARATHC 2010500-002D	Carbon Canister	10/13/2020	E200.7	7440-23-5
MARATHC 2010500-003a	Carbon Canister	10/11/2020	SW8260B	71-43-2
MARATHC 2010500-003a	Carbon Canister	10/11/2020	SW8260B	100-41-4
MARATHC 2010500-003a	Carbon Canister	10/11/2020	SW8260B	1634-04-4
MARATHC 2010500-003a	Carbon Canister	10/11/2020	SW8260B	108-88-3
MARATHC 2010500-003a	Carbon Canister	10/11/2020	SW8260B	1330-20-7
MARATHC 2010500-003B	Carbon Canister	10/10/2020	SW8015	TPH-DRO
MARATHC 2010500-003C	Carbon Canister	10/12/2020	M4500-H+B	pH
MARATHC 2010500-003C	Carbon Canister	10/12/2020	E300	24959-67-9
MARATHC 2010500-003C	Carbon Canister	10/12/2020	E300	7723-14-0
MARATHC 2010500-003C	Carbon Canister	10/12/2020	E300	16887-00-6
MARATHC 2010500-003C	Carbon Canister	10/12/2020	E300	16984-48-8
MARATHC 2010500-003C	Carbon Canister	10/12/2020	E300	NO3NO2N
MARATHC 2010500-003C	Carbon Canister	10/14/2020	M2510 B	eC
MARATHC 2010500-003C	Carbon Canister	10/15/2020	E300	14808-79-8
MARATHC 2010500-003D	Carbon Canister	10/13/2020	E200.7	7440-70-2
MARATHC 2010500-003D	Carbon Canister	10/13/2020	E200.7	7439-95-4
MARATHC 2010500-003D	Carbon Canister	10/13/2020	E200.7	7440-09-7
MARATHC 2010500-003D	Carbon Canister	10/13/2020	E200.7	7440-23-5
MARATHC 2010500-004a	Carbon Canister	10/11/2020	SW8260B	71-43-2
MARATHC 2010500-004a	Carbon Canister	10/11/2020	SW8260B	100-41-4
MARATHC 2010500-004a	Carbon Canister	10/11/2020	SW8260B	1634-04-4
MARATHC 2010500-004a	Carbon Canister	10/11/2020	SW8260B	108-88-3
MARATHC 2010500-004a	Carbon Canister	10/11/2020	SW8260B	1330-20-7
MARATHC 2010500-004B	Carbon Canister	10/10/2020	SW8015	TPH-DRO
MARATHC 2010500-004C	Carbon Canister	10/12/2020	M4500-H+B	pH
MARATHC 2010500-004C	Carbon Canister	10/12/2020	E300	24959-67-9
MARATHC 2010500-004C	Carbon Canister	10/12/2020	E300	7723-14-0
MARATHC 2010500-004C	Carbon Canister	10/12/2020	E300	16887-00-6
MARATHC 2010500-004C	Carbon Canister	10/12/2020	E300	16984-48-8
MARATHC 2010500-004C	Carbon Canister	10/12/2020	E300	14808-79-8
MARATHC 2010500-004C	Carbon Canister	10/12/2020	E300	NO3NO2N
MARATHC 2010500-004C	Carbon Canister	10/14/2020	M2510 B	eC
MARATHC 2010500-004D	Carbon Canister	10/13/2020	E200.7	7439-95-4
MARATHC 2010500-004D	Carbon Canister	10/13/2020	E200.7	7440-70-2
MARATHC 2010500-004D	Carbon Canister	10/13/2020	E200.7	7440-09-7
MARATHC 2010500-004D	Carbon Canister	10/13/2020	E200.7	7440-23-5
Western R 2010a31-001a	Carbon Canister	10/23/2020	SW8260B	71-43-2
Western R 2010a31-001a	Carbon Canister	10/23/2020	SW8260B	100-41-4
Western R 2010a31-001a	Carbon Canister	10/23/2020	SW8260B	1634-04-4
Western R 2010a31-001a	Carbon Canister	10/23/2020	SW8260B	108-88-3
Western R 2010a31-001a	Carbon Canister	10/23/2020	SW8260B	1330-20-7
Western R 2010A31-001B	Carbon Canister	10/23/2020	SW8015	TPH-DRO
Western R 2010A31-001C	Carbon Canister	10/23/2020	E300	24959-67-9
Western R 2010A31-001C	Carbon Canister	10/23/2020	E300	7723-14-0
Western R 2010A31-001C	Carbon Canister	10/23/2020	E300	16887-00-6
Western R 2010A31-001C	Carbon Canister	10/23/2020	E300	16984-48-8
Western R 2010A31-001C	Carbon Canister	10/23/2020	E300	14808-79-8
Western R 2010A31-001C	Carbon Canister	10/23/2020	E300	NO3NO2N
Western R 2010A31-001C	Carbon Canister	10/26/2020	M4500-H+B	pH

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Western R 2010A31-001C	Carbon Canister	10/26/2020	M2510 B	eC
Western R 2010A31-001D	Carbon Canister	11/3/2020	E200.7	7439-95-4
Western R 2010A31-001D	Carbon Canister	11/3/2020	E200.7	7440-70-2
Western R 2010A31-001D	Carbon Canister	11/3/2020	E200.7	7440-09-7
Western R 2010A31-001D	Carbon Canister	11/4/2020	E200.7	7440-23-5
Western R 2010a31-002a	Carbon Canister	10/23/2020	SW8260B	71-43-2
Western R 2010a31-002a	Carbon Canister	10/23/2020	SW8260B	100-41-4
Western R 2010a31-002a	Carbon Canister	10/23/2020	SW8260B	1634-04-4
Western R 2010a31-002a	Carbon Canister	10/23/2020	SW8260B	108-88-3
Western R 2010a31-002a	Carbon Canister	10/23/2020	SW8260B	1330-20-7
Western R 2010A31-002B	Carbon Canister	10/23/2020	SW8015	TPH-DRO
Western R 2010A31-002C	Carbon Canister	10/23/2020	E300	24959-67-9
Western R 2010A31-002C	Carbon Canister	10/23/2020	E300	7723-14-0
Western R 2010A31-002C	Carbon Canister	10/23/2020	E300	16887-00-6
Western R 2010A31-002C	Carbon Canister	10/23/2020	E300	16984-48-8
Western R 2010A31-002C	Carbon Canister	10/23/2020	E300	14808-79-8
Western R 2010A31-002C	Carbon Canister	10/23/2020	E300	NO3NO2N
Western R 2010A31-002C	Carbon Canister	10/26/2020	M4500-H+B	pH
Western R 2010A31-002C	Carbon Canister	10/26/2020	M2510 B	eC
Western R 2010A31-002D	Carbon Canister	11/3/2020	E200.7	7440-70-2
Western R 2010A31-002D	Carbon Canister	11/3/2020	E200.7	7439-95-4
Western R 2010A31-002D	Carbon Canister	11/3/2020	E200.7	7440-09-7
Western R 2010A31-002D	Carbon Canister	11/4/2020	E200.7	7440-23-5
Western R 2010a31-003a	Carbon Canister	10/23/2020	SW8260B	71-43-2
Western R 2010a31-003a	Carbon Canister	10/23/2020	SW8260B	100-41-4
Western R 2010a31-003a	Carbon Canister	10/23/2020	SW8260B	1634-04-4
Western R 2010a31-003a	Carbon Canister	10/23/2020	SW8260B	108-88-3
Western R 2010a31-003a	Carbon Canister	10/23/2020	SW8260B	1330-20-7
Western R 2010A31-003B	Carbon Canister	10/23/2020	SW8015	TPH-DRO
Western R 2010A31-003C	Carbon Canister	10/23/2020	E300	24959-67-9
Western R 2010A31-003C	Carbon Canister	10/23/2020	E300	7723-14-0
Western R 2010A31-003C	Carbon Canister	10/23/2020	E300	14808-79-8
Western R 2010A31-003C	Carbon Canister	10/23/2020	E300	16887-00-6
Western R 2010A31-003C	Carbon Canister	10/23/2020	E300	16984-48-8
Western R 2010A31-003C	Carbon Canister	10/23/2020	E300	NO3NO2N
Western R 2010A31-003C	Carbon Canister	10/26/2020	M4500-H+B	pH
Western R 2010A31-003C	Carbon Canister	10/26/2020	M2510 B	eC
Western R 2010A31-003D	Carbon Canister	11/3/2020	E200.7	7440-70-2
Western R 2010A31-003D	Carbon Canister	11/3/2020	E200.7	7439-95-4
Western R 2010A31-003D	Carbon Canister	11/3/2020	E200.7	7440-09-7
Western R 2010A31-003D	Carbon Canister	11/4/2020	E200.7	7440-23-5
Western R 2010a31-004a	Carbon Canister	10/23/2020	SW8260B	71-43-2
Western R 2010a31-004a	Carbon Canister	10/23/2020	SW8260B	100-41-4
Western R 2010a31-004a	Carbon Canister	10/23/2020	SW8260B	1634-04-4
Western R 2010a31-004a	Carbon Canister	10/23/2020	SW8260B	108-88-3
Western R 2010a31-004a	Carbon Canister	10/23/2020	SW8260B	1330-20-7
Western R 2010A31-004B	Carbon Canister	10/23/2020	SW8015	TPH-DRO
Western R 2010A31-004C	Carbon Canister	10/23/2020	E300	24959-67-9
Western R 2010A31-004C	Carbon Canister	10/23/2020	E300	7723-14-0
Western R 2010A31-004C	Carbon Canister	10/23/2020	E300	14808-79-8
Western R 2010A31-004C	Carbon Canister	10/23/2020	E300	16887-00-6
Western R 2010A31-004C	Carbon Canister	10/23/2020	E300	16984-48-8

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Western R 2010A31-004C	Carbon Canister	10/23/2020	E300	NO3NO2N
Western R 2010A31-004C	Carbon Canister	10/26/2020	M4500-H+B	pH
Western R 2010A31-004C	Carbon Canister	10/26/2020	M2510 B	eC
Western R 2010A31-004D	Carbon Canister	11/3/2020	E200.7	7440-70-2
Western R 2010A31-004D	Carbon Canister	11/3/2020	E200.7	7439-95-4
Western R 2010A31-004D	Carbon Canister	11/3/2020	E200.7	7440-09-7
Western R 2010A31-004D	Carbon Canister	11/4/2020	E200.7	7440-23-5
Western R 2010c71-001a	Carbon Canister	11/2/2020	SW8260B	71-43-2
Western R 2010c71-001a	Carbon Canister	11/2/2020	SW8260B	100-41-4
Western R 2010c71-001a	Carbon Canister	11/2/2020	SW8260B	1634-04-4
Western R 2010c71-001a	Carbon Canister	11/2/2020	SW8260B	108-88-3
Western R 2010c71-001a	Carbon Canister	11/2/2020	SW8260B	1330-20-7
Western R 2010C71-001B	Carbon Canister	10/31/2020	SW8015	TPH-DRO
Western R 2010C71-001C	Carbon Canister	10/30/2020	M4500-H+B	pH
Western R 2010C71-001C	Carbon Canister	10/30/2020	M2510 B	eC
Western R 2010C71-001C	Carbon Canister	11/2/2020	E300	24959-67-9
Western R 2010C71-001C	Carbon Canister	11/2/2020	E300	7723-14-0
Western R 2010C71-001C	Carbon Canister	11/2/2020	E300	14808-79-8
Western R 2010C71-001C	Carbon Canister	11/2/2020	E300	16887-00-6
Western R 2010C71-001C	Carbon Canister	11/2/2020	E300	16984-48-8
Western R 2010C71-001C	Carbon Canister	11/2/2020	E300	NO3NO2N
Western R 2010C71-001D	Carbon Canister	11/2/2020	E200.7	7439-95-4
Western R 2010C71-001D	Carbon Canister	11/3/2020	E200.7	7440-70-2
Western R 2010C71-001D	Carbon Canister	11/3/2020	E200.7	7440-09-7
Western R 2010C71-001D	Carbon Canister	11/3/2020	E200.7	7440-23-5
Western R 2010c71-002a	Carbon Canister	11/2/2020	SW8260B	71-43-2
Western R 2010c71-002a	Carbon Canister	11/2/2020	SW8260B	100-41-4
Western R 2010c71-002a	Carbon Canister	11/2/2020	SW8260B	1634-04-4
Western R 2010c71-002a	Carbon Canister	11/2/2020	SW8260B	108-88-3
Western R 2010c71-002a	Carbon Canister	11/2/2020	SW8260B	1330-20-7
Western R 2010C71-002B	Carbon Canister	10/31/2020	SW8015	TPH-DRO
Western R 2010C71-002C	Carbon Canister	10/30/2020	M4500-H+B	pH
Western R 2010C71-002C	Carbon Canister	10/30/2020	M2510 B	eC
Western R 2010C71-002C	Carbon Canister	11/2/2020	E300	24959-67-9
Western R 2010C71-002C	Carbon Canister	11/2/2020	E300	7723-14-0
Western R 2010C71-002C	Carbon Canister	11/2/2020	E300	14808-79-8
Western R 2010C71-002C	Carbon Canister	11/2/2020	E300	16887-00-6
Western R 2010C71-002C	Carbon Canister	11/2/2020	E300	16984-48-8
Western R 2010C71-002C	Carbon Canister	11/2/2020	E300	NO3NO2N
Western R 2010C71-002D	Carbon Canister	11/3/2020	E200.7	7439-95-4
Western R 2010C71-002D	Carbon Canister	11/3/2020	E200.7	7440-70-2
Western R 2010C71-002D	Carbon Canister	11/3/2020	E200.7	7440-09-7
Western R 2010C71-002D	Carbon Canister	11/3/2020	E200.7	7440-23-5
Western R 2011962-001a	Carbon Canister	11/22/2020	SW8260B	71-43-2
Western R 2011962-001a	Carbon Canister	11/22/2020	SW8260B	100-41-4
Western R 2011962-001a	Carbon Canister	11/22/2020	SW8260B	1634-04-4
Western R 2011962-001a	Carbon Canister	11/22/2020	SW8260B	108-88-3
Western R 2011962-001a	Carbon Canister	11/22/2020	SW8260B	1330-20-7
Western R 2011962-001B	Carbon Canister	11/21/2020	SW8015	TPH-DRO
Western R 2011962-001C	Carbon Canister	11/20/2020	M2510 B	eC
Western R 2011962-001C	Carbon Canister	11/21/2020	E300	24959-67-9
Western R 2011962-001C	Carbon Canister	11/21/2020	E300	7723-14-0

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Western R 2011962-001C	Carbon Canister	11/21/2020	E300	16887-00-6
Western R 2011962-001C	Carbon Canister	11/21/2020	E300	16984-48-8
Western R 2011962-001C	Carbon Canister	11/21/2020	E300	14808-79-8
Western R 2011962-001C	Carbon Canister	11/21/2020	E300	NO3NO2N
Western R 2011962-001C	Carbon Canister	11/20/2020	M4500-H+B	pH
Western R 2011962-001D	Carbon Canister	11/24/2020	E200.7	7440-70-2
Western R 2011962-001D	Carbon Canister	11/24/2020	E200.7	7439-95-4
Western R 2011962-001D	Carbon Canister	11/24/2020	E200.7	7440-09-7
Western R 2011962-001D	Carbon Canister	11/24/2020	E200.7	7440-23-5
Western R 2011965-001a	Carbon Canister	11/22/2020	SW8260B	71-43-2
Western R 2011965-001a	Carbon Canister	11/22/2020	SW8260B	100-41-4
Western R 2011965-001a	Carbon Canister	11/22/2020	SW8260B	1634-04-4
Western R 2011965-001a	Carbon Canister	11/22/2020	SW8260B	108-88-3
Western R 2011965-001a	Carbon Canister	11/22/2020	SW8260B	1330-20-7
Western R 2011965-001B	Carbon Canister	11/21/2020	SW8015	TPH-DRO
Western R 2011965-001C	Carbon Canister	11/20/2020	M2510 B	eC
Western R 2011965-001C	Carbon Canister	11/21/2020	E300	24959-67-9
Western R 2011965-001C	Carbon Canister	11/21/2020	E300	7723-14-0
Western R 2011965-001C	Carbon Canister	11/21/2020	E300	14808-79-8
Western R 2011965-001C	Carbon Canister	11/21/2020	E300	16887-00-6
Western R 2011965-001C	Carbon Canister	11/21/2020	E300	16984-48-8
Western R 2011965-001C	Carbon Canister	11/21/2020	E300	NO3NO2N
Western R 2011965-001C	Carbon Canister	11/20/2020	M4500-H+B	pH
Western R 2011965-001D	Carbon Canister	11/24/2020	E200.7	7440-70-2
Western R 2011965-001D	Carbon Canister	11/24/2020	E200.7	7439-95-4
Western R 2011965-001D	Carbon Canister	11/24/2020	E200.7	7440-09-7
Western R 2011965-001D	Carbon Canister	11/24/2020	E200.7	7440-23-5
Western R 2011B86-001a	Carbon Canister	11/30/2020	SW8260B	71-43-2
Western R 2011B86-001a	Carbon Canister	11/30/2020	SW8260B	100-41-4
Western R 2011B86-001a	Carbon Canister	11/30/2020	SW8260B	1634-04-4
Western R 2011B86-001a	Carbon Canister	11/30/2020	SW8260B	108-88-3
Western R 2011B86-001a	Carbon Canister	11/30/2020	SW8260B	1330-20-7
Western R 2011B86-001B	Carbon Canister	11/26/2020	SW8015	TPH-DRO
Western R 2011B86-001C	Carbon Canister	12/3/2020	E300	24959-67-9
Western R 2011B86-001C	Carbon Canister	12/3/2020	E300	7723-14-0
Western R 2011B86-001C	Carbon Canister	12/3/2020	E300	14808-79-8
Western R 2011B86-001C	Carbon Canister	12/3/2020	E300	16887-00-6
Western R 2011B86-001C	Carbon Canister	12/3/2020	E300	16984-48-8
Western R 2011B86-001C	Carbon Canister	12/3/2020	E300	NO3NO2N
Western R 2011B86-001C	Carbon Canister	11/30/2020	M4500-H+B	pH
Western R 2011B86-001C	Carbon Canister	11/30/2020	M2510 B	eC
Western R 2011B86-001D	Carbon Canister	11/30/2020	E200.7	7439-95-4
Western R 2011B86-001D	Carbon Canister	11/30/2020	E200.7	7440-70-2
Western R 2011B86-001D	Carbon Canister	11/30/2020	E200.7	7440-09-7
Western R 2011B86-001D	Carbon Canister	11/30/2020	E200.7	7440-23-5

CC EDD by Date

Analyte	R_Rslt	PQL	MDL	DF	Units	R_Qual
Benzene	< 10	10	4.532868		20 µg/L	
Ethylbenzene	< 20	20	4.257114		20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563		20 µg/L	
Toluene	< 20	20	3.985148		20 µg/L	
Xylenes, Total	< 30	30	11.09015		20 µg/L	
Diesel Range Organics (DRO)	< 1.0	1	0.9009		1 mg/L	
Specific Conductance	4500	10	10		1 µmhos/cm	
pH	8.39				1 pH units	H
Bromide	< 1.0	1	0.5		10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5		10 mg/L	H
Chloride	350	50	25		100 mg/L	*
Sulfate	460	50	25		100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544		10 mg/L	
Fluoride	93	10	4.329541		100 mg/L	*
Calcium	27	1	0.114859		1 mg/L	
Magnesium	10	1	0.067107		1 mg/L	
Potassium	90	1	0.160305		1 mg/L	
Sodium	700	10	1.86961		10 mg/L	
Benzene	< 10	10	4.532868		20 µg/L	
Ethylbenzene	< 20	20	4.257114		20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563		20 µg/L	
Toluene	< 20	20	3.985148		20 µg/L	
Xylenes, Total	< 30	30	11.09015		20 µg/L	
Diesel Range Organics (DRO)	< 1.0	1	0.9009		1 mg/L	
pH	9.44				1 pH units	*H
Specific Conductance	9100	10	10		1 µmhos/cm	
Bromide	1.4	1	0.5		10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5		10 mg/L	H
Chloride	570	50	25		100 mg/L	*
Fluoride	130	10	4.329541		100 mg/L	*
Sulfate	2200	50	25		100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544		10 mg/L	
Calcium	25	1	0.114859		1 mg/L	
Magnesium	4.9	1	0.067107		1 mg/L	
Potassium	280	10	1.60305		10 mg/L	
Sodium	1800	20	3.73922		20 mg/L	
Benzene	< 10	10	4.532868		20 µg/L	
Ethylbenzene	< 20	20	4.257114		20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563		20 µg/L	
Toluene	< 20	20	3.985148		20 µg/L	
Xylenes, Total	< 30	30	11.09015		20 µg/L	
Diesel Range Organics (DRO)	< 1.0	1	0.9009		1 mg/L	
pH	9.34				1 pH units	*H
Specific Conductance	10000	10	10		1 µmhos/cm	
Bromide	2.0	1	0.5		10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5		10 mg/L	H
Chloride	630	50	25		100 mg/L	*
Fluoride	41	10	4.329541		100 mg/L	*
Sulfate	3000	50	25		100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544		10 mg/L	
Calcium	22	1	0.114859		1 mg/L	

CC EDD by Date

Magnesium	6.8	1	0.067107	1 mg/L	
Potassium	250	10	1.60305	10 mg/L	
Sodium	2100	50	9.348051	50 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	< 1.0	1	0.9009	1 mg/L	
pH	5.87			1 pH units	H
Bromide	2.7	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Chloride	850	50	25	100 mg/L	*
Fluoride	73	10	4.329541	100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
Specific Conductance	15000	50	50	5 µmhos/cm	
Sulfate	6200	100	50	200 mg/L	*
Calcium	660	10	1.148588	10 mg/L	
Magnesium	130	10	0.671069	10 mg/L	
Potassium	160	10	1.60305	10 mg/L	
Sodium	1600	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	< 1.0	1	0.9009	1 mg/L	
pH	6.29			1 pH units	H
Bromide	4.4	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Chloride	1000	50	25	100 mg/L	*
Fluoride	44	10	4.329541	100 mg/L	*
Sulfate	3300	50	25	100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
Specific Conductance	13000	50	50	5 µmhos/cm	
Magnesium	29	1	0.067107	1 mg/L	
Calcium	160	10	1.148588	10 mg/L	
Potassium	140	10	1.60305	10 mg/L	
Sodium	1400	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	< 1.0	1	0.9009	1 mg/L	
Bromide	120	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Chloride	1400	50	25	100 mg/L	
Fluoride	31	10	4.329541	100 mg/L	*
Sulfate	640	50	25	100 mg/L	
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
pH	5.68			1 pH units	H

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Specific Conductance	8700	10	10	1 µmhos/cm	
Magnesium	29	1	0.05115	1 mg/L	
Calcium	82	5	0.230523	5 mg/L	
Potassium	120	5	0.676289	5 mg/L	
Sodium	1300	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	2.2	1	0.9009	1 mg/L	
Bromide	60	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Chloride	1200	50	25	100 mg/L	
Fluoride	30	10	4.329541	100 mg/L	*
Sulfate	510	50	25	100 mg/L	
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
pH	6.80			1 pH units	H
Specific Conductance	8000	10	10	1 µmhos/cm	
Calcium	49	1	0.046105	1 mg/L	
Magnesium	20	1	0.05115	1 mg/L	
Potassium	110	5	0.676289	5 mg/L	
Sodium	1200	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	P
Ethylbenzene	< 20	20	4.257114	20 µg/L	P
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	P
Toluene	< 20	20	3.985148	20 µg/L	P
Xylenes, Total	< 30	30	11.09015	20 µg/L	P
Diesel Range Organics (DRO)	< 1.0	1	0.9009	1 mg/L	
Bromide	53	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Sulfate	170	5	2.5	10 mg/L	
Chloride	1200	50	25	100 mg/L	
Fluoride	18	10	4.329541	100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
pH	5.98			1 pH units	H
Specific Conductance	8300	10	10	1 µmhos/cm	
Calcium	99	1	0.046105	1 mg/L	
Magnesium	32	1	0.05115	1 mg/L	
Potassium	120	10	1.352577	10 mg/L	
Sodium	1200	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	< 1.0	1	0.9009	1 mg/L	
Bromide	42	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Sulfate	160	5	2.5	10 mg/L	
Chloride	1100	50	25	100 mg/L	
Fluoride	20	10	4.329541	100 mg/L	*

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Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
pH	7.17			1 pH units	H
Specific Conductance	8000	10	10	1 µmhos/cm	
Calcium	67	1	0.046105	1 mg/L	
Magnesium	22	1	0.05115	1 mg/L	
Potassium	100	10	1.352577	10 mg/L	
Sodium	1200	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	7.9	1	0.9009	1 mg/L	H
pH	6.83			1 pH units	H
Specific Conductance	9900	10	10	1 µmhos/cm	
Bromide	25	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Sulfate	110	5	2.5	10 mg/L	
Chloride	1900	50	25	100 mg/L	
Fluoride	16	10	4.329541	100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
Magnesium	18	1	0.05115	1 mg/L	
Calcium	79	5	0.230523	5 mg/L	
Potassium	110	5	0.676289	5 mg/L	
Sodium	1200	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	1.2	1	0.9009	1 mg/L	
pH	7.08			1 pH units	H
Specific Conductance	8000	10	10	1 µmhos/cm	
Bromide	34	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Sulfate	46	5	2.5	10 mg/L	
Chloride	1300	50	25	100 mg/L	
Fluoride	15	10	4.329541	100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
Magnesium	23	1	0.05115	1 mg/L	
Calcium	86	5	0.230523	5 mg/L	
Potassium	130	5	0.676289	5 mg/L	
Sodium	1400	20	3.73922	20 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	H
Ethylbenzene	< 20	20	4.257114	20 µg/L	H
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	H
Toluene	< 20	20	3.985148	20 µg/L	H
Xylenes, Total	< 30	30	11.09015	20 µg/L	H
Diesel Range Organics (DRO)	4.2	1	0.9009	1 mg/L	H
Specific Conductance	6000	10	10	1 µmhos/cm	
Bromide	10	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H

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Chloride	600	50	25	100 mg/L	
Fluoride	51	10	4.329541	100 mg/L	*
Sulfate	880	50	25	100 mg/L	
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
pH	6.57			1 pH units	H
Calcium	39	1	0.046105	1 mg/L	
Magnesium	16	1	0.05115	1 mg/L	
Potassium	93	1	0.135258	1 mg/L	
Sodium	950	10	1.86961	10 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	H
Ethylbenzene	< 20	20	4.257114	20 µg/L	H
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	H
Toluene	< 20	20	3.985148	20 µg/L	H
Xylenes, Total	< 30	30	11.09015	20 µg/L	H
Diesel Range Organics (DRO)	1.9	1	0.9009	1 mg/L	H
Specific Conductance	5800	10	10	1 µmhos/cm	
Bromide	17	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Sulfate	44	5	2.5	10 mg/L	
Chloride	710	50	25	100 mg/L	
Fluoride	30	10	4.329541	100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
pH	6.33			1 pH units	H
Calcium	75	1	0.046105	1 mg/L	
Magnesium	18	1	0.05115	1 mg/L	
Potassium	100	10	1.352577	10 mg/L	
Sodium	780	10	1.86961	10 mg/L	
Benzene	< 10	10	4.532868	20 µg/L	
Ethylbenzene	< 20	20	4.257114	20 µg/L	
Methyl tert-butyl ether (MTBE)	< 20	20	7.866563	20 µg/L	
Toluene	< 20	20	3.985148	20 µg/L	
Xylenes, Total	< 30	30	11.09015	20 µg/L	
Diesel Range Organics (DRO)	1.2	1	0.9009	1 mg/L	
Bromide	9.8	1	0.5	10 mg/L	
Phosphorus, Orthophosphate (As P)	< 5.0	5	2.5	10 mg/L	H
Sulfate	70	5	2.5	10 mg/L	
Chloride	430	50	25	100 mg/L	
Fluoride	15	10	4.329541	100 mg/L	*
Nitrate+Nitrite as N	< 2.0	2	0.122544	10 mg/L	
pH	5.82			1 pH units	H
Specific Conductance	5000	10	10	1 µmhos/cm	
Magnesium	30	1	0.05115	1 mg/L	
Calcium	120	20	0.922092	20 mg/L	
Potassium	110	20	2.705154	20 mg/L	
Sodium	650	20	3.73922	20 mg/L	

CC EDD by Date

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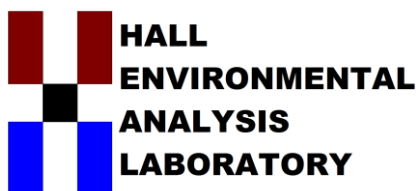
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API Flowrate (gpm)

84FT842.PV

Period	Avg Flow (gpm)
November	6
01-Nov-20 00:00:00	0.111733333
02-Nov-20 00:00:00	0.101946084
03-Nov-20 00:00:00	18.900729
04-Nov-20 00:00:00	22.04940174
05-Nov-20 00:00:00	0.097158353
06-Nov-20 00:00:00	0.089179622
07-Nov-20 00:00:00	0.080886739
08-Nov-20 00:00:00	0.097116195
09-Nov-20 00:00:00	29.57084959
10-Nov-20 00:00:00	0.126798609
11-Nov-20 00:00:00	0.109398561
12-Nov-20 00:00:00	17.02640431
13-Nov-20 00:00:00	0.094121154
14-Nov-20 00:00:00	0.089150232
15-Nov-20 00:00:00	0.100188393
16-Nov-20 00:00:00	0.094897769
17-Nov-20 00:00:00	29.78366036
18-Nov-20 00:00:00	39.66665642
19-Nov-20 00:00:00	1.998173457
20-Nov-20 00:00:00	25.25559172
21-Nov-20 00:00:00	0.162048023
22-Nov-20 00:00:00	0.09232209
23-Nov-20 00:00:00	0.086370118
24-Nov-20 00:00:00	0.103758282
25-Nov-20 00:00:00	0.108837293
26-Nov-20 00:00:00	0.109412033
27-Nov-20 00:00:00	0.118309154
28-Nov-20 00:00:00	0.112817463
29-Nov-20 00:00:00	0.114840873
30-Nov-20 00:00:00	0.111533175



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

November 25, 2020

Jake Usrey

Western Refining Southwest, Gallup
92 Giant Crossing Road
Gallup, NM 87301
TEL: (505) 722-3833
FAX

RE: Carbon Canister WWTP

OrderNo.: 2011962

Dear Jake Usrey:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/19/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2011962

Date Reported: 11/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Carbon Canister

Project: Carbon Canister WWTP

Collection Date: 10/29/2020 1:00:00 PM

Lab ID: 2011962-001

Matrix: AQUEOUS

Received Date: 11/19/2020 7:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE								
							Analyst: mb	
Diesel Range Organics (DRO)	4.2	0.90	1.0	H	mg/L	1	11/21/2020 11:10:39 A	56565
Surr: DNOP	129	0	70-130	H	%Rec	1	11/21/2020 11:10:39 A	56565
EPA METHOD 300.0: ANIONS								
							Analyst: MRA	
Fluoride	51	4.3	10	*	mg/L	100	11/21/2020 4:24:35 PM	R73559
Chloride	600	25	50		mg/L	100	11/21/2020 4:24:35 PM	R73559
Bromide	10	0.50	1.0		mg/L	10	11/21/2020 3:59:55 PM	R73559
Phosphorus, Orthophosphate (As P)	ND	2.5	5.0	H	mg/L	10	11/21/2020 3:59:55 PM	R73559
Sulfate	880	25	50		mg/L	100	11/21/2020 4:24:35 PM	R73559
Nitrate+Nitrite as N	1.3	0.12	2.0	J	mg/L	10	11/21/2020 4:36:56 PM	R73559
EPA METHOD 200.7: TOTAL METALS								
							Analyst: ELS	
Calcium	39	0.046	1.0		mg/L	1	11/24/2020 11:27:14 A	56585
Magnesium	16	0.051	1.0		mg/L	1	11/24/2020 11:27:14 A	56585
Potassium	93	0.14	1.0		mg/L	1	11/24/2020 11:27:14 A	56585
Sodium	950	1.9	10		mg/L	10	11/24/2020 11:29:06 A	56585
EPA METHOD 8260: VOLATILES SHORT LIST								
							Analyst: CCM	
Benzene	ND	4.5	10	H	µg/L	20	11/22/2020 1:52:00 PM	R73539
Toluene	ND	4.0	20	H	µg/L	20	11/22/2020 1:52:00 PM	R73539
Ethylbenzene	ND	4.3	20	H	µg/L	20	11/22/2020 1:52:00 PM	R73539
Methyl tert-butyl ether (MTBE)	ND	7.9	20	H	µg/L	20	11/22/2020 1:52:00 PM	R73539
Xylenes, Total	ND	11	30	H	µg/L	20	11/22/2020 1:52:00 PM	R73539
Surr: 1,2-Dichloroethane-d4	109	0	70-130	H	%Rec	20	11/22/2020 1:52:00 PM	R73539
Surr: 4-Bromofluorobenzene	103	0	70-130	H	%Rec	20	11/22/2020 1:52:00 PM	R73539
Surr: Dibromofluoromethane	106	0	70-130	H	%Rec	20	11/22/2020 1:52:00 PM	R73539
Surr: Toluene-d8	96.5	0	70-130	H	%Rec	20	11/22/2020 1:52:00 PM	R73539
SM2510B: SPECIFIC CONDUCTANCE								
							Analyst: MH	
Conductivity	6000	10	10		µmhos/c	1	11/20/2020 12:04:46 P	R73552
SM4500-H+B / 9040C: PH								
							Analyst: MH	
pH	6.57			H	pH units	1	11/20/2020 12:04:46 P	R73552

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 6

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

WO#: 2011962

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: MB-56585	SampType: MBLK	TestCode: EPA Method 200.7: Total Metals								
Client ID: PBW	Batch ID: 56585	RunNo: 73586								
Prep Date: 11/22/2020	Analysis Date: 11/24/2020	SeqNo: 2592856	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: LCS-56585	SampType: LCS	TestCode: EPA Method 200.7: Total Metals								
Client ID: LCSW	Batch ID: 56585	RunNo: 73586								
Prep Date: 11/22/2020	Analysis Date: 11/24/2020	SeqNo: 2592858	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			
Potassium	49	1.0	50.00	0	98.4	85	115			
Sodium	48	1.0	50.00	0	96.9	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2011962

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R73559	RunNo: 73559								
Prep Date:	Analysis Date: 11/21/2020	SeqNo: 2591261	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R73559	RunNo: 73559								
Prep Date:	Analysis Date: 11/21/2020	SeqNo: 2591262	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	101	90	110			
Chloride	4.7	0.50	5.000	0	94.6	90	110			
Bromide	2.4	0.10	2.500	0	96.8	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.3	90	110			
Sulfate	9.6	0.50	10.00	0	95.9	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2011962

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: MB-56565	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 56565	RunNo: 73544								
Prep Date: 11/20/2020	Analysis Date: 11/21/2020	SeqNo: 2590719	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.3		1.000		129	70	130			

Sample ID: LCS-56565	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 56565	RunNo: 73544								
Prep Date: 11/20/2020	Analysis Date: 11/21/2020	SeqNo: 2590720	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	121	70	130			
Surr: DNOP	0.57		0.5000		115	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2011962

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: 100ng lcs	SampType: LCS			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: LCSW	Batch ID: R73539			RunNo: 73539						
Prep Date:	Analysis Date: 11/22/2020			SeqNo: 2590354		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	20	1.0	20.00	0	98.8	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch ID: R73539			RunNo: 73539						
Prep Date:	Analysis Date: 11/22/2020			SeqNo: 2590355		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.5		10.00		94.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011962

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: lcs-1 99.2uS eC	SampType: lcs		TestCode: SM2510B: Specific Conductance							
Client ID: LCSW	Batch ID: R73552		RunNo: 73552							
Prep Date:	Analysis Date: 11/20/2020		SeqNo: 2591044		Units: µmhos/cm					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.20	0	101	85	115			

Sample ID: lcs-2 99.2uS eC	SampType: lcs		TestCode: SM2510B: Specific Conductance							
Client ID: LCSW	Batch ID: R73552		RunNo: 73552							
Prep Date:	Analysis Date: 11/20/2020		SeqNo: 2591077		Units: µmhos/cm					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.20	0	106	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 6 of 6



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

Sample Log-In Check List

Client Name: Andeavor, Gallup

Work Order Number: 2011962

RcptNo: 1

Received By: Isaiah Ortiz 11/19/2020 7:30:00 AM

Completed By: Desiree Dominguez 11/19/2020 8:15:20 AM

Reviewed By: Em 11/19/20

I-OX

ID2

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Approved by client. Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐ SGL 11/19/20
8. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 2
(2 or >12 unless noted)

Adjusted? YChecked by: SGL 11/19/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: For metals analysis added 0.5 mL HNO_3 to sample 001D

17. Cooler Information Checked for pH <2 SGL 11/19/20

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	15.5	Good	Yes			

Chain-of-Custody Record

Client:		Western - Refining		Turn-Around Time:		☒ Standard ☐ Rush	
Mailing Address:		92 GIANT CROSSING ROAD		Project Name:		Carbon Canister - WWTP	
Gallup NM 87301		505 722 3833		Project #:			
Phone #:		505 863 0930		Sample Day's			
Email or Fax#:				Project Manager:		JAKE LISZBY	
QA/QC Package:				Sample Temperature:		15.5 ± 0.0	
☒ Standard ☐ Other ☐ EDD (Type)		☐ Level 4 (Full Validation) ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No Sample Temperature: 15.5 ± 0.0 Container Type and #		Preservative Type HEAL No. 0930 2011962	
Date	Time	Matrix	Sample Request ID	Container Type and #	NaOH/Zn Acetate	HEAL No.	
10/24/30	10:00 AM	H2O	Carbon Canister	Plastic 500ml-1	Acetate	-001	
10/24/30	10:00 AM	H2O	Carbon Canister	125ml-1	H2SO4		
10/24/30	10:00 AM	H2O	Carbon Canister	500ml-1	None		
10/24/30	10:00 AM	H2O	Carbon Canister	500ml-1	HNO3		
10/24/30	10:00 AM	H2O	Carbon Canister	40ml-3 / 125ml-1 Amber	HCL / None		
08:00AM		H2O	Carbon Canister	Plastic 500ml-1	NaOH/Zn Acetate		
08:00AM		H2O	Carbon Canister	125ml-1	H2SO4		
08:00AM		H2O	Carbon Canister	500ml-1	None		
08:00AM		H2O	Carbon Canister	500ml-1	HNO3		
08:00AM		H2O	Carbon Canister	40ml-3 / 125ml-1 Amber	HCL / None		
Date:	Time:	Relinquished by:	Received by:	Date	Time	Date	Time
11:00am				11/19/20	0730		
Date:	Time:	Relinquished by:	Received by:	Date	Time	Date	Time

Carbon Canister

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

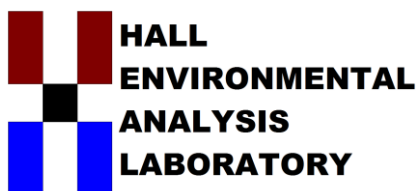

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TPH (Gas)	
BTEX + MTBE + (8021)B	X
TPH (Method 418.1)	
TPH (Method 504.1)	
PAH (8310 or 8270SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , PO ₄)	X
8081 Pesticides / 8082 PC	
8260B (VOA)	
8270 (Semi-VOA)	
PH	X
Specific Conductance	
Cations	
Sulfide	X
Air Bubbles (Y or N)	

 No bottle
 bottle
 11-19-20



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

November 25, 2020

Jake Usrey

Western Refining Southwest, Gallup
92 Giant Crossing Road
Gallup, NM 87301
TEL: (505) 722-3833
FAX

RE: Carbon Canister WWTP

OrderNo.: 2011965

Dear Jake Usrey:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/19/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2011965

Date Reported: 11/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Carbon Canister

Project: Carbon Canister WWTP

Collection Date: 11/3/2020 3:00:00 PM

Lab ID: 2011965-001

Matrix: AQUEOUS

Received Date: 11/19/2020 7:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE								
							Analyst: mb	
Diesel Range Organics (DRO)	1.9	0.90	1.0	H	mg/L	1	11/21/2020 11:20:13 A	56565
Surr: DNOP	122	0	70-130	H	%Rec	1	11/21/2020 11:20:13 A	56565
EPA METHOD 300.0: ANIONS								
							Analyst: MRA	
Fluoride	30	4.3	10	*	mg/L	100	11/21/2020 3:22:52 PM	R73559
Chloride	710	25	50		mg/L	100	11/21/2020 3:22:52 PM	R73559
Bromide	17	0.50	1.0		mg/L	10	11/21/2020 2:58:10 PM	R73559
Phosphorus, Orthophosphate (As P)	ND	2.5	5.0	H	mg/L	10	11/21/2020 2:58:10 PM	R73559
Sulfate	44	2.5	5.0		mg/L	10	11/21/2020 2:58:10 PM	R73559
Nitrate+Nitrite as N	ND	0.12	2.0		mg/L	10	11/21/2020 3:35:13 PM	R73559
EPA METHOD 200.7: TOTAL METALS								
							Analyst: ELS	
Calcium	75	0.046	1.0		mg/L	1	11/24/2020 11:39:00 A	56585
Magnesium	18	0.051	1.0		mg/L	1	11/24/2020 11:39:00 A	56585
Potassium	100	1.4	10		mg/L	10	11/24/2020 11:40:53 A	56585
Sodium	780	1.9	10		mg/L	10	11/24/2020 11:40:53 A	56585
EPA METHOD 8260: VOLATILES SHORT LIST								
							Analyst: CCM	
Benzene	ND	4.5	10	H	µg/L	20	11/22/2020 2:16:00 PM	R73539
Toluene	ND	4.0	20	H	µg/L	20	11/22/2020 2:16:00 PM	R73539
Ethylbenzene	ND	4.3	20	H	µg/L	20	11/22/2020 2:16:00 PM	R73539
Methyl tert-butyl ether (MTBE)	ND	7.9	20	H	µg/L	20	11/22/2020 2:16:00 PM	R73539
Xylenes, Total	ND	11	30	H	µg/L	20	11/22/2020 2:16:00 PM	R73539
Surr: 1,2-Dichloroethane-d4	112	0	70-130	H	%Rec	20	11/22/2020 2:16:00 PM	R73539
Surr: 4-Bromofluorobenzene	103	0	70-130	H	%Rec	20	11/22/2020 2:16:00 PM	R73539
Surr: Dibromofluoromethane	107	0	70-130	H	%Rec	20	11/22/2020 2:16:00 PM	R73539
Surr: Toluene-d8	96.3	0	70-130	H	%Rec	20	11/22/2020 2:16:00 PM	R73539
SM2510B: SPECIFIC CONDUCTANCE								
							Analyst: MH	
Conductivity	5800	10	10		µmhos/c	1	11/20/2020 12:09:09 P	R73552
SM4500-H+B / 9040C: PH								
							Analyst: MH	
pH	6.33			H	pH units	1	11/20/2020 12:09:09 P	R73552

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 6

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

WO#: 2011965

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: MB-56585	SampType: MBLK	TestCode: EPA Method 200.7: Total Metals								
Client ID: PBW	Batch ID: 56585	RunNo: 73586								
Prep Date: 11/22/2020	Analysis Date: 11/24/2020	SeqNo: 2592856	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: LCS-56585	SampType: LCS	TestCode: EPA Method 200.7: Total Metals								
Client ID: LCSW	Batch ID: 56585	RunNo: 73586								
Prep Date: 11/22/2020	Analysis Date: 11/24/2020	SeqNo: 2592858	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			
Potassium	49	1.0	50.00	0	98.4	85	115			
Sodium	48	1.0	50.00	0	96.9	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
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E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2011965

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R73559	RunNo: 73559								
Prep Date:	Analysis Date: 11/21/2020	SeqNo: 2591261	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R73559	RunNo: 73559								
Prep Date:	Analysis Date: 11/21/2020	SeqNo: 2591262	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	101	90	110			
Chloride	4.7	0.50	5.000	0	94.6	90	110			
Bromide	2.4	0.10	2.500	0	96.8	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.3	90	110			
Sulfate	9.6	0.50	10.00	0	95.9	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2011965

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: MB-56565	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 56565		RunNo: 73544							
Prep Date: 11/20/2020	Analysis Date: 11/21/2020		SeqNo: 2590719		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.3		1.000		129	70	130			

Sample ID: LCS-56565	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 56565		RunNo: 73544							
Prep Date: 11/20/2020	Analysis Date: 11/21/2020		SeqNo: 2590720		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	121	70	130			
Surr: DNOP	0.57		0.5000		115	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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

WO#: 2011965

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: 100ng lcs	SampType: LCS			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: LCSW	Batch ID: R73539			RunNo: 73539						
Prep Date:	Analysis Date: 11/22/2020			SeqNo: 2590354		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	20	1.0	20.00	0	98.8	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch ID: R73539			RunNo: 73539						
Prep Date:	Analysis Date: 11/22/2020			SeqNo: 2590355		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.5		10.00		94.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011965

25-Nov-20

Client: Western Refining Southwest, Gallup**Project:** Carbon Canister WWTP

Sample ID: lcs-1 99.2uS eC	SampType: lcs		TestCode: SM2510B: Specific Conductance							
Client ID: LCSW	Batch ID: R73552		RunNo: 73552							
Prep Date:	Analysis Date: 11/20/2020		SeqNo: 2591044		Units: µmhos/cm					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.20	0	101	85	115			

Sample ID: lcs-2 99.2uS eC	SampType: lcs		TestCode: SM2510B: Specific Conductance							
Client ID: LCSW	Batch ID: R73552		RunNo: 73552							
Prep Date:	Analysis Date: 11/20/2020		SeqNo: 2591077		Units: µmhos/cm					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.20	0	106	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 6 of 6



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

Sample Log-In Check List

Client Name: **Andeavor, Gallup**Work Order Number: **2011965**RcptNo: **1**Received By: **Isaiah Ortiz** 11/19/2020 7:30:00 AMCompleted By: **Desiree Dominguez** 11/19/2020 8:25:46 AMReviewed By: **Em 11/19/20**

I-OX

D2

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☒ No ☒ NA ☐ SGL 11/19/20
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 2
(2 or >12 unless noted)
Adjusted? Yes
Checked by: SGL 11/19/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks: For metals analysis added 0.5mL HNO₃ to sample 001D checked for pH <2 SGL 11/19/20

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Chain-of-Custody Record

Client: Western - Refining		Turn-Around Time: ☒ Standard ☐ Rush	
Gallup Refinery		Project Name: Carbon Canister - WWTP	
Mailing Address: 92 GIANT CROSSING ROAD		Project #: _____	
Gallup NM 87301		Sample Day's _____	
Phone #: 505 722 3833		Project Manager: Jake Usrey	
email or Fax#: 505 863 0930		Sampler: _____	
QA/QC Package: ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No	
☒ Standard		Sample Temperature: 15.5°C ± 0.9°C	
☐ Other _____		Preservative Type: _____	
☐ EDD (Type) _____		Container Type and #	
Date	Time	Matrix	Sample Request ID
1/13/20	3:00P	H2O	Carbon Canister
1/13/20	3:00P	H2O	Carbon Canister
1/13/20	3:00P	H2O	Carbon Canister
1/13/20	3:00P	H2O	Carbon Canister
1/13/20	3:00P	H2O	Carbon Canister
		H2O	Carbon Canister
		H2O	Carbon Canister
		H2O	Carbon Canister
		H2O	Carbon Canister
		H2O	Carbon Canister
		H2O	Carbon Canister
Date:	Time:	Relinquished by:	
Date:	Time:	Relinquished by:	


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request												
BTEX + MTBE + (8021)B	BTEX + MTBE + TPH (Gas)	TPH 8015B (DRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄)	8081 Pesticides / 8082 PC	8260B (VOA)	8270 (Semi-VOA)	PH	Specific Conductance
												Cations
												Sulfide
												Air Bubbles (Y or N)

Carbon Canister

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

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 14035

COMMENTS

Operator:		OGRID:	Action Number:	Action Type:
WESTERN REFINING SOUTHWEST, IN	123 W Mills Avenue	267595	14035	DISCHARGE PERMIT
Suite 200	El Paso, TX79901			

Created By	Comment	Comment Date
cchavez	Monthly Wastewater Report November 2020 Accepted for Record 12-26-2021	02/26/2021

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 14035

CONDITIONS OF APPROVAL

Operator:	WESTERN REFINING SOUTHWEST, IN	123 W Mills Avenue	OGRID:	267595	Action Number:	14035	Action Type:	DISCHARGE PERMIT
	Suite 200	El Paso, TX79901						
OCD Reviewer	Condition							
cchavez	None							