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UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF IDAHO

NEZ PERCE TRIBE, Plaintiff, v. MIDAS GOLD CORP., MIDAS GOLD IDAHO, INC., IDAHO GOLD RESOURCES COMPANY, LLC, And STIBNITE GOLD COMPANY, Defendants.	No. 01:19-cv-307 **COMPLAINT**

NATURE OF THE ACTION

1. Plaintiff Nez Perce Tribe ("Nez Perce" or "the Tribe") brings this action under 33 U.S.C. § 1365(a), the citizen enforcement provision of the Federal Water Pollution Control Act, also known as the Clean Water Act ("CWA"), against Defendant Midas Gold Corp., a Canadian corporation, and related Defendants Idaho Gold Resources Company, LLC, Stibnite Gold Company, and Midas Gold Idaho, Inc. (hereinafter collectively referred to as "Midas Gold" or "Defendants").

2. The CWA prohibits the discharge of any pollutant from a point source to waters of the United States unless done in compliance with a National Pollutant Discharge Elimination System ("NPDES") permit. 33 U.S.C. § 1311(a). In violation of the CWA, Midas Gold has discharged and continues to discharge pollutants from multiple point sources at the Stibnite Gold Project ("Proposed Mine") site ("Midas Gold's Site" or "the Site") into the East Fork South Fork ("EFSF") Salmon River and its tributaries without authorization by a valid NPDES permit(s).

3. Midas Gold is illegally discharging aluminum, arsenic, antimony, cyanide, iron, manganese, mercury, and thallium. Each of these pollutants can negatively impact the health of fish, other aquatic biota, birds, mammals, and humans, and each pollutant has been documented entering the EFSF Salmon River and its tributaries at concentrations above applicable water quality criteria. The EFSF Salmon River and its tributaries are waters of the United States located within the Tribe's aboriginal homeland, and Midas Gold's discharges harm the Tribe's culturally-significant, Treaty-reserved resources, including its fisheries.

4. Midas Gold's unpermitted discharges have occurred for at least five years prior to the date of this Complaint and are ongoing.

5. In 2009, Midas Gold's precursor corporations began acquiring land and mineral interests at the Site, and Midas Gold has since gained ownership and/or operational control over the lands and mining claim(s) where each pollution point source is located. Midas Gold has conducted exploratory drilling and proposed constructing an enormous gold mine at the Site, but they have not secured the numerous permits and approvals required for the Proposed Mine.

6. Over the last ten years, as Defendants gained ownership and/or operational control over the Site, they have extensively studied the Site's history, hydrology, and water quality. Defendants have not taken action, however, to address the sources of pollution at the Site and never obtained a valid NPDES permit(s) authorizing pollution discharges. Midas Gold continues to discharge pollutants from these point sources without a valid NPDES permit(s).

7. The Tribe seeks declaratory and injunctive relief prohibiting Defendants from discharging pollutants into the EFSF Salmon River and its tributaries without obtaining and complying with a valid NPDES permit(s). The Tribe also seeks CWA civil penalties, under CWA § 309(d), 33 U.S.C. § 1319(d), against Defendants, jointly and severally, for each and every violation committed, to be paid to the U.S. Treasury. Finally, the Tribe seeks as an award of litigation costs including attorney and expert witness fees, under CWA § 505(d), 33 U.S.C. § 1365(d), and any other applicable cost and fee recovery statutes.

JURISDICTION AND VENUE

8. Jurisdiction is proper in this Court under the CWA, 33 U.S.C. § 1365(a), which vests U.S. district courts with jurisdiction over citizen enforcement actions like the one at issue in this case.

9. The requested relief is proper under the CWA, 33 U.S.C. § 1365(a), and under 28 U.S.C. § 2201-2202 because Midas Gold has discharged and continues to discharge pollutants without a valid NPDES permit(s).

10. The Tribe is a citizen under the CWA. 33 U.S.C. § 1365(g).

11. As required by the CWA, the Tribe provided Midas Gold with notice of its intent to sue sixty days prior to filing this Complaint. 33 U.S.C. § 1365(b)(1). At the same time, the Tribe also provided notice of the impending action to EPA and Idaho Department of Environmental Quality officials, as required by the CWA. *Id.* Neither agency has commenced an action that constitutes diligent prosecution to redress Midas Gold's CWA violations. Therefore, this action is permitted to commence under the CWA. *See* Notice of Intent, June 5, 2019 and Exhibits thereto, which are attached hereto as Attachments 1 through 4, and incorporated by reference.

12. Venue is proper in this Court under the CWA, 33 U.S.C. § 1365(c)(1), because Midas Gold's unlawful point source pollution discharges are located within the District of Idaho.

PARTIES

Nez Perce Tribe

13. The Tribe is a federally-recognized Indian tribe with headquarters on the Nez Perce Reservation in Lapwai, Idaho. The Nez Perce people, the *Nimiipuu*, exclusively occupied, since time immemorial, thirteen million acres encompassing a large part of what is today Idaho, Oregon, and Washington—stretching from the Bitterroot Mountains to the Blue Mountains. Nez Perce also traveled far beyond this homeland to fish, hunt, gather, and pasture—frequently going east to buffalo country, in what is today the state of Montana, and west along the Snake and Columbia rivers to the Pacific Ocean.

14. Nez Perce actively maintain their connection to the land, water, and resources of their vast homeland. Seasonal rounds and migration patterns for cultural and subsistence uses are carefully coordinated to take full advantage of fish, wildlife, and root crops. These annual cycles correspond not only to the unique resource needs of the Nez Perce and the seasonal availability of their resources but also to the ceremonial activities and social gatherings that occur throughout the year. The Nez Perce's intimate knowledge and continuous use of their homeland over millennia has created a unique and reverential bond between people and place that defines Nez Perce culture and identity.

15. When the Tribe entered into a treaty with the United States in 1855, it sought to reserve the rights central to maintaining its culture and way of life. The 1855 Treaty reserved to the Tribe, for its "exclusive use and benefit," 7.5 million acres of its more than thirteen-million-acre homeland, including an area spanning present-day north-central Idaho, southeast Washington, and northeast Oregon as well as:

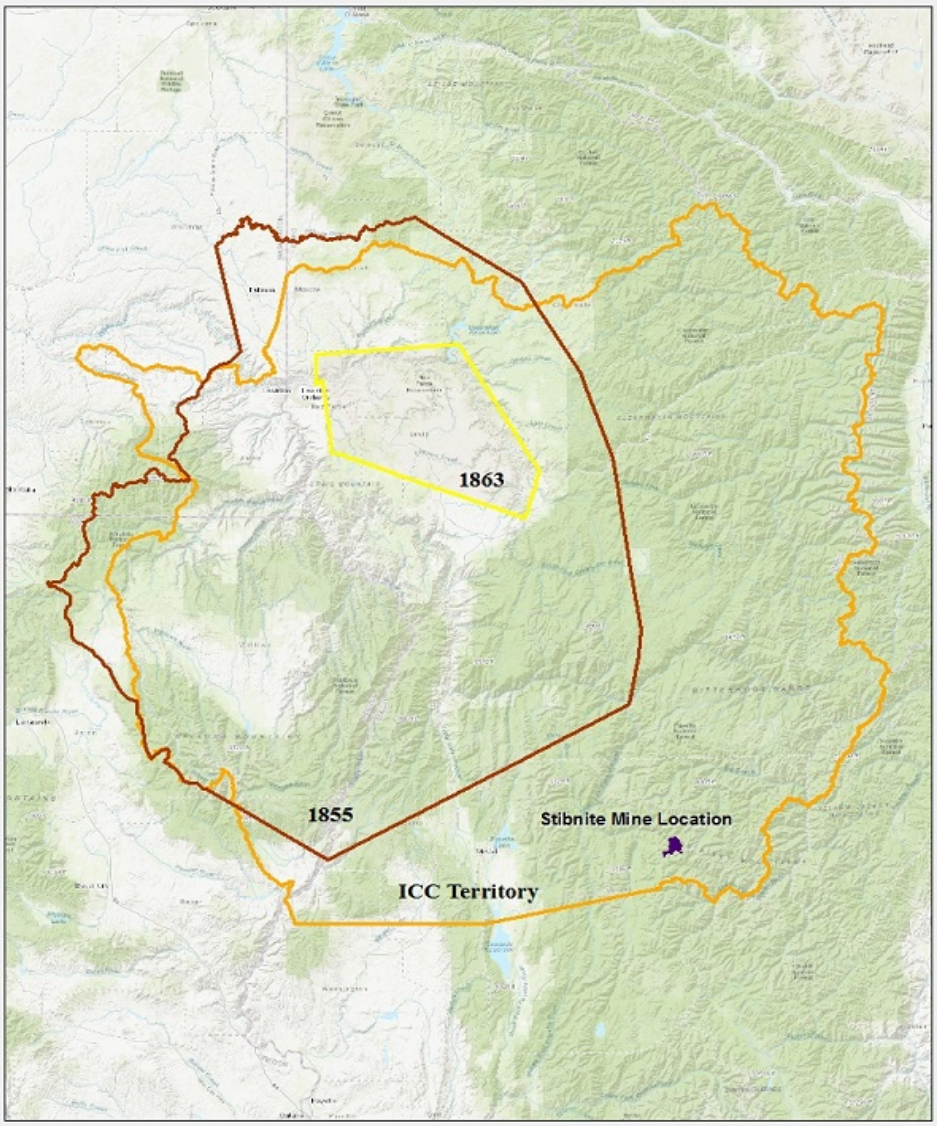
> [T]he right of taking fish at all usual and accustomed places in common with citizens of the Territory; and of erecting temporary buildings for curing, together with the privilege of hunting, gathering roots and berries, and pasturing their horses and cattle upon open and unclaimed land.

Treaty with the Nez Perces, art. 3, June 11, 1855, 12 Stat. 957.

16. Midas Gold's Site and point source pollution discharges are geographically located within the Tribe's aboriginal homeland, within the area adjudicated by the Indian Claims Commission to have been exclusively used and occupied by the Tribe, *Nez Perce Tribe v. United States*, Docket #175, 18 Ind. Cl. Comm. 1, and within the area over which Tribe has Treaty-reserved rights and resources.

17. Nez Perce Tribal members, pursuant to the Tribe's Treaty-reserved rights, continue to fish, hunt, gather, and pasture across the Tribe's vast aboriginal homeland and at traditional places, including areas within and surrounding Midas Gold's Site and in waters directly downstream. *See* Map 1, below (illustrating Stibnite Mine location in reference to Nez Perce Tribe lands).

Stibnite Mine Location in Reference to Nez Perce Tribe Reservations



18. The majority of Midas Gold's Site is located on unpatented mining claim(s) on public land in the Payette National Forest. The Payette National Forest provides irreplaceable habitat for the Tribe's Treaty-reserved fish, wildlife, plants, and resources, including: spring/summer Chinook salmon, steelhead, bull trout, west slope cutthroat trout, redband rainbow trout, mountain whitefish, western pearlshell mussel, Rocky Mountain bighorn sheep, North American wolverine, fisher, gray wolf, elk, mule deer, moose, white-tailed deer, Clark's nutcracker, whitebark pine, limber pine, bent-flower milkvetch, Sacajawea's bitterroot, Idaho Douglasia, huckleberries, serviceberry, elk thistle, yarrow, wild onion, wild tobacco, Indian hemp, tule, elderberry, chokecherry, Indian tea, Oregon grape, thimbleberry, alder, birch, and kowskows.

19. Regrettably, some of the resources sacred to the Tribe are at risk of disappearing in the Payette National Forest. The Tribe is especially concerned about the decline of Snake River spring/summer Chinook salmon, Snake River steelhead, and bull trout, each of which is listed as "threatened" under the Endangered Species Act ("ESA") due to population declines, habitat loss, and the risk of extinction. The Tribe has worked to recover these species in the South Fork Salmon River watershed, including in the EFSF Salmon River.

20. For example, the Tribe's Department of Fisheries Resources Management works extensively throughout the South Fork Salmon River watershed, expending approximately $2.79 million annually on fisheries supplementation, research, and watershed restoration work, as part of the broader Columbia River Basin salmon restoration efforts. This work includes moving some Chinook salmon above the "Glory Hole" (also known as the "Yellow Pine Pit")—a legacy mine pit at Midas Gold's Site that blocks salmon from migrating up the EFSF Salmon River to their spawning grounds. Tribal biologists and watershed specialists, in partnership with the

Forest Service and private entities, also supplement the Chinook salmon population in Johnson Creek, operate two salmon hatchery programs, monitor adult returns and juvenile production to determine the status and productivity of ESA-listed Chinook salmon, and implement habitat restoration projects in the South Fork Salmon River watershed.

21. Due to the Tribe's Treaty-reserved rights and resources within and around Midas Gold's Site, and its substantial fishery-restoration work in the South Fork Salmon River watershed, the Tribe has also invested a substantial amount of time and resources in understanding and trying to address its concerns with Midas Gold's activities at the Site.

22. Since 2012, the Tribe has been deeply engaged in learning about Midas Gold's activities and proposals, including Midas Gold's mine exploration proposals, and in learning about the Site and its resources. The Tribe's Executive Committee members have consulted with federal agencies and have, along with Tribal staff, visited the Site, reviewed documents, participated in administrative proceedings, and submitted comments concerning Midas Gold's activities and proposals.

23. The Tribe has also dedicated substantial financial and staff resources to understanding Midas Gold's Proposed Mine and the harm it would do to the Tribe's Treaty-reserved resources in, around, and downstream of the Site and the harm it would thereby have on the Tribe and its members.

24. Midas Gold's point source pollution discharges from the Site have degraded and continue to degrade water quality in and downstream of the Site. These discharges harm aquatic life and the plants and wildlife that rely on these waters and food sources. These discharges also harm Nez Perce Tribal members who actively fish and gather these Treaty-reserved resources throughout their aboriginal homeland, including in the South Fork Salmon River watershed.

These resources and their procurement are central to Tribal members' cultural identity and cultural practices.

25. The Tribe's injuries are fairly traceable to Midas Gold's unpermitted pollution discharges, and a favorable decision imposing declaratory relief, injunctive relief, and/or civil penalties will redress the Tribe's injuries.

Midas Gold

26. Midas Gold consists of four separate but related corporations: Midas Gold Corp.; Midas Gold Idaho, Inc.; Idaho Gold Resources Company, LLC; and Stibnite Gold Company. These four corporate entities individually and/or collectively own or hold the patented and unpatented mining claim(s) on which each of the unlawful CWA discharges are occurring, have operational control of the Site, and are the Defendants in this matter.

27. Defendants Midas Gold Idaho, Inc., Idaho Gold Resources Company, LLC, and Stibnite Gold Company are Idaho companies and wholly-owned subsidiaries of Midas Gold Corp.

28. Defendant Midas Gold Corp. was incorporated on February 22, 2011 under the Business Corporations Act of British Columbia, Canada, S.B.C. 2002, c. 57. It was organized to locate, acquire, and develop mineral properties located principally in the Stibnite Mining District in Valley County, Idaho. Its principal business activity continues to be the exploration and development of its Proposed Mine in Valley County, Idaho. Its corporate office is located at 890-999 West Hastings St, Vancouver, BC, V6C 2W2, Canada.

APPLICABLE LEGAL REQUIREMENTS

29. Congress adopted the CWA "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters." 33 U.S.C. § 1251(a). The CWA establishes an

"interim goal of water quality which provides for the protection and propagation of fish, shellfish, and wildlife." § 1251(a)(2). To these ends, Congress developed both a water quality-based and technology-based approach to regulating discharges of pollutants from point sources into waters of the United States.

30. The CWA prohibits the "discharge of any pollutant by any person" to waters of the United States, unless authorized by a valid NPDES permit(s). *Id.* §§ 1311(a), 1342(a).

31. "Discharge of a pollutant" means "any addition of any pollutant to navigable waters from any point source." *Id.* § 1362(12). "Pollutant" is defined to include solid, chemical, and industrial waste discharged into water. *Id.* § 1362(6). A "point source" is "any discernible, confined and discrete conveyance," *id.* § 1362(14), and "navigable waters" are broadly defined as "the waters of the United States." *Id.* § 1362(7).

32. The CWA's citizen suit provision authorizes "any citizen" to "commence a civil action on his own behalf" in federal district court against any person who is alleged to be in violation of "an effluent standard or limitation" of the Act. *Id.* § 1365(a). "'[C]itizen' means a person or persons having an interest which is or may be adversely affected." *Id.* § 1365(g). "Person" is "an individual, corporation, partnership, association, State, municipality, commission, or political subdivision of a State, or any interstate body." *Id.* § 1362(5). "Municipality" includes an "Indian tribe or an authorized Indian tribal organization." *Id.* § 1362(4).

33. A person is liable under the CWA for discharging pollutants without a NPDES permit if that person is an "owner or operator of any 'facility or activity' subject to regulation under the NPDES program." 40 C.F.R. § 122.2. "Facility or activity means any NPDES 'point source' or any other facility or activity (including land or appurtenances thereto) that is subject to

regulation under the NPDES program." *Id*. A person or entity is "an operator of a facility where it has the power or capacity to (i) make timely discovery of discharges, (ii) direct the activities of persons who control the mechanisms causing the pollution, and (iii) prevent and abate damage." *Beartooth All. v. Crown Butte Mines*, 904 F. Supp. 1168, 1175 (D. Mont. 1995) (*citing Apex Oil Co. v. United States*, 530 F.2d 1291, 1293 (8th Cir. 1976)).

34. Citizens are required to provide notice of any alleged violations sixty days prior to commencing suit. 33 U.S.C. § 1365(b).

35. The CWA provides for the imposition of civil penalties of up to $37,500 per violation per day that occurred through November 2, 2015, and up to $54,833 per violation per day that occurred after November 2, 2015. 33 U.S.C. § 1319(d) (adjusted by 40 C.F.R. § 19.4 and Civil Monetary Penalty Inflation Adjustment Rule, 84 Fed. Reg. 2056-60 (Feb. 6, 2019)).

36. The CWA does not contain a limitations period for citizen suit enforcement actions, but 28 U.S.C. § 2462 provides a five-year statute of limitations for a suit or proceeding for the enforcement of any civil fine or penalty.

BACKGROUND FACTS

East Fork South Fork Salmon River Watershed

37. The EFSF Salmon River is a perennial tributary of the South Fork Salmon River, which is a tributary to the Salmon River.

38. As illustrated on Map 2 below, Midas Gold's Site contains many of the streams that comprise the headwaters of the EFSF Salmon River, including Meadow Creek, Sugar Creek, West End Creek, and Fiddle Creek. Also within the Site, the EFSF Salmon River cascades into the Glory Hole mining pit, which impounds the River until it eventually flows out through a

channel on the pit's north side. Fish passage above the Glory Hole in the EFSF Salmon River has been blocked since the Glory Hole was constructed during World War II.

39. The EFSF Salmon River and its tributaries are home to three fish species listed as "threatened" under the ESA: Snake River spring/summer Chinook salmon, Snake River steelhead, and bull trout.

40. The entire length of the EFSF Salmon River, including the stretch through Midas Gold's Site, is designated critical habitat under the ESA for Snake River spring/summer Chinook

salmon. Downstream of the Glory Hole, the EFSF Salmon River is designated critical habitat for Snake River steelhead, and so too is Sugar Creek (a tributary to the EFSF Salmon River within Midas Gold's Site). The EFSF Salmon River and three of its tributaries within the Site (Meadow Creek, West End Creek, and Fiddle Creek) are designated critical habitat for bull trout.

41. The EFSF Salmon River additionally provides important habitat to other fish and wildlife species, which the Tribe also reserved the right to access in its 1855 Treaty with the United States.

42. Water quality samples taken at Midas Gold's Site show elevated pollution levels in the EFSF Salmon River and its tributaries, including elevated levels of aluminum, arsenic, antimony, cyanide, iron, manganese, mercury, and thallium.

Midas Gold's Site

43. Midas Gold's Site is located in Valley County, 92 miles northeast of Boise and 10 miles east of Yellow Pine, Idaho. The Site sits at an elevation of about 6,500 feet, with surrounding mountains rising to an elevation of almost 9,000 feet. The Site encompasses 28,477 acres of National Forest System lands and 1,350 acres of private, patented mining claims.

44. From the 1920s through the 1950s, the Site was mined intensively for gold, silver, antimony, tungsten, and mercury. The site was again mined from the 1970s to the 1990s. This cumulative mining activity has created a disturbed footprint with open pits, waste rock dumps, spent heap leach piles/pads, and tailings piles that remain on the landscape today.

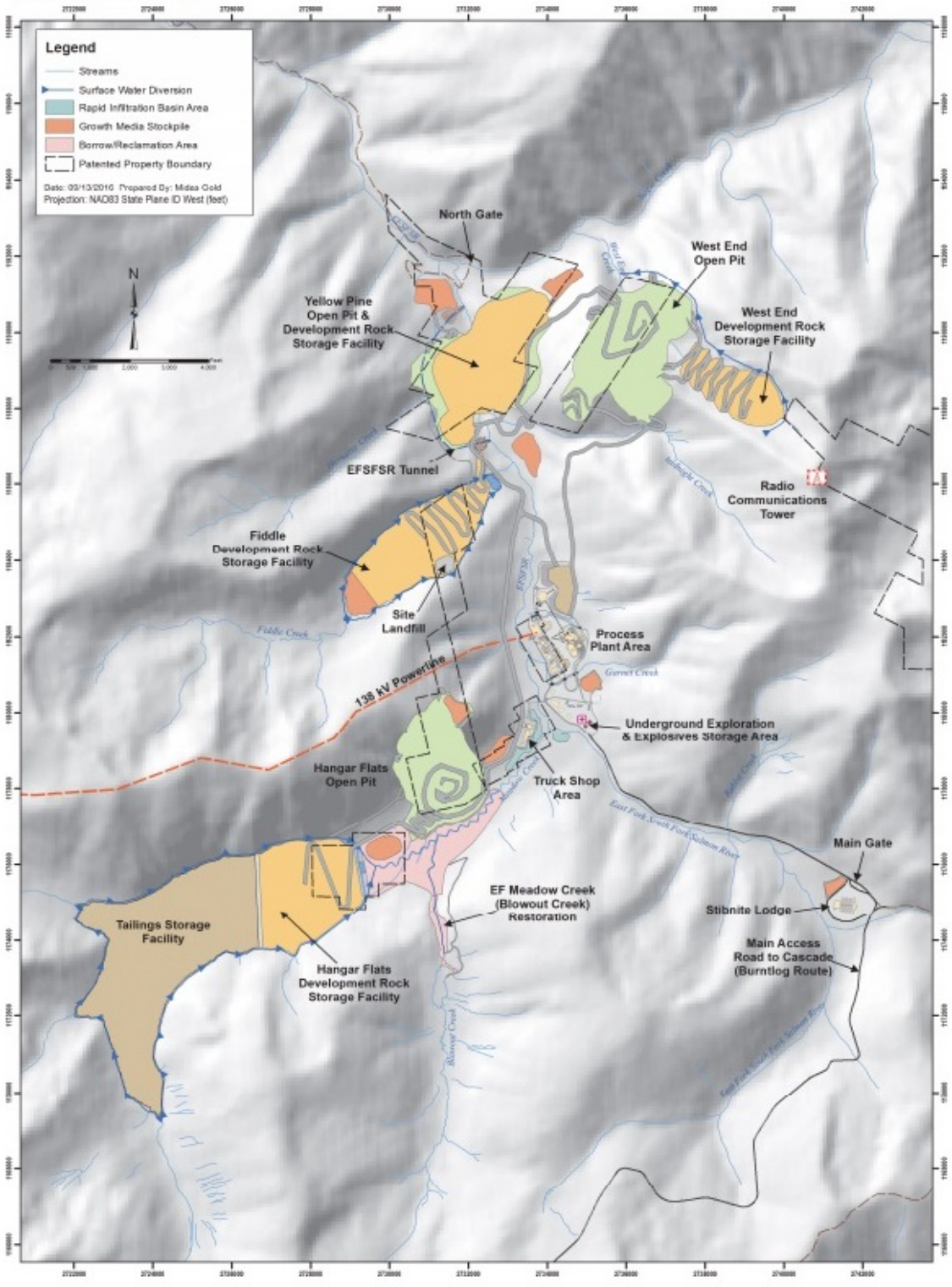
45. In 2009, Midas Gold's corporate precursors began acquiring patented and unpatented mining claim(s), conducting exploration activities, and extensively studying the Site, including its water resources. Since at least 2012, Midas Gold has held an interest in all the

patented and unpatented mining claims within the Site, including all lands where the point source discharges are located.

46. In 2016, Midas Gold submitted a proposal—the Stibnite Gold Project—to the U.S. Forest Service seeking approval to construct and operate a gold mine at the Site over the course of twenty years. Midas Gold, *Stibnite Gold Project: Plan of Restoration and Operations* (2016). Since then, the U.S. Forest Service has been working with Midas Gold and other state and federal regulatory agencies to prepare an Environmental Impact Statement as part of the process of considering whether to approve Midas Gold's proposal.

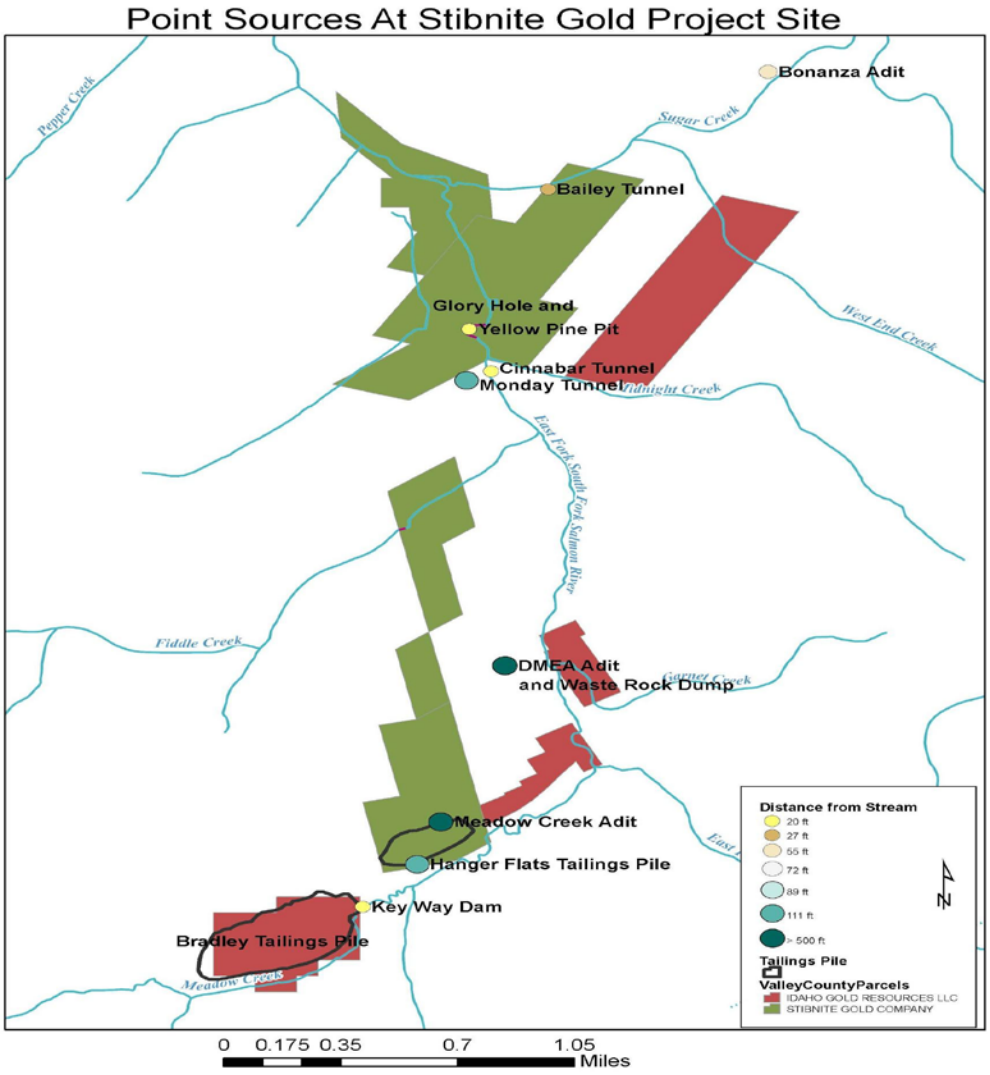
47. Midas Gold proposes to re-mine some areas of the Site and to more than double the mining footprint at the Site with an additional 800 acres of activity on undisturbed fish and wildlife habitat. Midas Gold's mining activity may fill three headwater stream valleys with 450 million tons of mine tailings and waste rock and leave two or three new mine pits at the Site in perpetuity. *See* Map 3 below (illustrating Midas Gold's Proposed Mine):

Figure 8-1, General Site Plan Layout



Midas Gold's Unpermitted Pollution Discharges

48. Midas Gold is violating the CWA by continuing to discharge pollutants from numerous point sources at the Site, as detailed in the Tribe's NOI (Attachments 1 & 2) and further detailed below. Midas Gold's unpermitted pollution discharges at the Stibnite Project Site include the following point sources: (a) Glory Hole, (b) Bradley Tailings Pile and Keyway Dam, (c) Hangar Flats Tailings Pile, (d) Bailey Tunnel, (e) DMEA Adit and DMEA Waste Rock Dump, (f) Bonanza Adit, (g) Cinnabar Tunnel, and (h) Meadow Creek. These point sources are illustrated on Map 4 below:



Glory Hole

49. The Glory Hole is an open mining pit first excavated during World War II. The Glory Hole is located within Midas Gold's patented mining claim(s) at the Site. Midas Gold has conducted exploratory drilling in and around the Glory Hole and has proposed to re-mine the pit to extract more ore as part of its Mine Proposal.

50. The EFSF Salmon River flows north from its headwaters, entering the Glory Hole by cascading down the steep walls of the mine pit. The Glory Hole pools and confines water into a reservoir-like feature. On the north side of the Glory Hole, water discharges from the mine pit through a small channel into the historical streambed of the EFSF Salmon River.

51. The Glory Hole collects and concentrates contaminated sediments, causes pollutants to leach from those sediments, and discharges elevated concentrations of pollutants downstream.

52. Over the years, significant quantities of mining-contaminated sediments have built up in the bottom of the Glory Hole as it has captured contaminated sediments washing down from upstream sources within the Site. The Glory Hole's walls also contain metal pollutants, which erode into the Glory Hole, contributing additional contaminated sediment to its bottom. The water chemistry and hydrologic conditions of the human-made Glory Hole cause pollutants from these sediments to leach and mobilize into its water. The Glory Hole's walls also contain seeps, which emit pollutants into the Glory Hole. The Glory Hole discharges the pollutants leached and mobilized from its bottom and walls, including antimony, arsenic, iron, and manganese, into the EFSF Salmon River on a daily basis through a small channel on the pit's north end. The seeps themselves are also conveyances that discharge pollutants directly into the Glory Hole.

53. Data collected upstream and downstream of the Glory Hole show it to be a major source of pollution for the EFSR Salmon River. In 2015, the U.S. Geological Survey estimated that the Glory Hole reach of the EFSF Salmon River contributed an average of 2,150 pounds of arsenic, 1,010 pounds of antimony, and 617 pounds of dissolved manganese into the EFSF Salmon River annually, from 2012-2014. A review of the available data collected by Midas Gold shows that the pollutant loads downstream of the Glory Hole are 30 percent to 50 percent higher than those measured upstream.

54. Pollutants have been discharged from the Glory Hole into the EFSF Salmon River, and from the seeps on the Glory Hole walls, on a daily basis for at least five years preceding the date of this Complaint. Despite having access to, and control over, the Glory Hole for at least the last five years, Midas Gold has not taken adequate steps to stop these discharges. These pollution discharges are recurring and will continue until appropriate control measures are implemented.

55. These pollution discharges from the Glory Hole are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

Bradley Tailings Pile & Keyway Dam

56. The Bradley Tailings Pile (also known as the Historic Tailings and Spent Ore Disposal Area) is located on Midas Gold's patented mining claim(s) at the Site. It is a legacy mine tailings deposit site located upstream of the Glory Hole, adjacent to Meadow Creek. *See* Map 3, *supra*. Meadow Creek is a perennial tributary of the EFSF Salmon River.

57. The Bradley Tailings Pile is comprised of mine tailings that contain high concentrations of arsenic, aluminum, antimony, and iron. On one end of the Bradley Tailings Pile is a human-made retaining berm known as the Keyway Dam.

58. The Bradley Tailings Pile is not capped, so rain and snow melt infiltrate it, coming into contact with, and leaching pollutants out of, contaminated tailings. This polluted water is then confined behind the Keyway Dam from which it discharges from three surface points at the base of the Dam. The discharged leachate flows overland through the Keyway Marsh, a delineated wetland, and then to the adjacent Meadow Creek, just a short distance away.

59. Monitoring data show that the surface discharges from the Keyway Dam into Keyway Marsh and from the Keyway Marsh into Meadow Creek contain elevated levels of pollutants, including aluminum, antimony, arsenic, cyanide, iron, manganese, and mercury.

60. In addition to these surface discharges, contaminated water from the Bradley Tailings Pile that builds up behind the Keyway Dam likely also discharges subsurface into the Keyway Marsh and Meadow Creek.

61. Pollutants have been discharged from the Bradley Tailings Pile and Keyway Dam into the Keyway Marsh and Meadow Creek on a daily basis for at least five years preceding the date of this Complaint. Despite having access to, and control over, this area for at least the last five years, Midas Gold has not taken adequate steps to stop these discharges. These pollution discharges are recurring and will continue until appropriate control measures are implemented.

62. These pollution discharges from the Bradley Tailings Pile are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

Hangar Flats Tailings Pile

63. The Hangar Flats Tailings Pile is a legacy tailings deposit site that sits adjacent to Meadow Creek, just northwest and downstream of the Bradley Tailings Pile. *See* Map 3, *supra*. It is located on Midas Gold's patented mining claim(s).

64. The Hangar Flats Tailings Pile is comprised of mine tailings that contain elevated concentrations of arsenic, antimony, aluminum, iron, manganese, and mercury. The Hangar Flats Tailings Pile is not capped, so rain and snow melt infiltrate it, leach pollutants out of the contaminated mine tailings, and discharge those pollutants through two seeps.

65. Monitoring data show that these seeps are discharging pollutants, including aluminum, antimony, arsenic, cyanide, iron, manganese, mercury, and thallium, into the floodplain of Meadow Creek, which shares both surface and subsurface hydrological connections with Meadow Creek. Polluted water from the Hanger Flats Tailings Pile seeps has also been seen flowing overland into Meadow Creek on at least one occasion and is thus likely to flow directly into Meadow Creek on other occasions when hydrologic conditions are similar.

66. Pollutants have been discharged from the Hangar Flats Tailings Pile to the hydrologically-connected Meadow Creek floodplain and to Meadow Creek on numerous occasions in the five years preceding the date of this Complaint. Despite having access to, and control over, this area for at least the last five years, Midas Gold has not taken adequate steps to stop these discharges. These pollution discharges are recurring and will continue until appropriate control measures are implemented.

67. These pollution discharges from the Hanger Flats Tailings Pile are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

Bailey Tunnel

68. The Bailey Tunnel is a large tunnel that was constructed around 1943 to divert the EFSF Salmon River around the Glory Hole and into one of its perennial tributaries, Sugar Creek. The Bailey Tunnel has been abandoned since 1955 when the EFSF Salmon River was returned to its original course, but it continues to discharge contaminated mine drainage into Sugar Creek. It

is located on Midas Gold's patented mining claim(s) at the Site. Midas Gold has conducted drilling in the vicinity.

69. Monitoring data show the Bailey Tunnel has discharged pollutants, including antimony, arsenic, iron, and manganese, into Sugar Creek.

70. Pollutants have discharged from the Bailey Tunnel continuously, or at least intermittently, into Sugar Creek for at least five years preceding the date of this Complaint. Despite having access to, and control over, this area for at least the last five years, Midas Gold has not taken adequate steps to stop these discharges. These discharges are recurring and will continue until appropriate control measures are implemented.

71. These pollution discharges from the Bailey Tunnel are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

DMEA Adit & DMEA Waste Rock Dump

72. The Defense Minerals Exploration Administration ("DMEA") Adit and DMEA Waste Rock Dump are located between the Glory Hole and the Bradley Tailings Pile on Midas Gold's unpatented mining claim(s) at the Site. Adits are small exploratory tunnels bored into the mountainside, sometimes miles long, which are typically graded such that water drains out through the adit opening.

73. Monitoring data show the DMEA Adit and DMEA Waste Rock Dump discharge pollutants, including aluminum, antimony, arsenic, iron, manganese, and mercury, into the EFSF Salmon River. Discharges from the DMEA Adit infiltrate into the porous DMEA Waste Rock Dump, emerge overland from a defined seep at the toe of the DMEA Waste Rock Dump, and flow into the EFSF Salmon River.

74. Pollutants have been discharged from the DMEA Adit and the DMEA Waste Rock Dump into the EFSF Salmon River continuously for at least five years preceding the date of this Complaint. Despite having access to, and control over, this area for at least the last five years, Midas Gold has not taken adequate steps to stop these discharges. These pollution discharges are recurring and will continue until appropriate control measures are implemented.

75. These pollution discharges from the DMEA Adit and DMEA Waste Rock Dump are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

Bonanza Adit

76. The Bonanza Adit seep originates as a small pond on a bench on a hillside that has been excavated across its face by legacy exploration activities. The seep is located on Midas Gold's unpatented mining claim(s), and Midas Gold has also conducted drilling in the near vicinity.

77. Monitoring data show the Bonanza Adit seep flows at a low volume year-round out of the pond, downhill, across a road, and onto the floodplain of Sugar Creek, where, on at least several occasions during the five years preceding the date of this Complaint, it discharged pollutants, including aluminum, antimony, arsenic, cyanide, iron, manganese, and mercury, into the Sugar Creek floodplain.

78. The Bonanza Adit's discharges likely reach Sugar Creek through shallow subsurface hydrologic connections.

79. Pollutants have, therefore, been discharged from the Bonanza Adit continuously into Sugar Creek for at least five years preceding the date of this Complaint. Despite having access to, and control over, this area for at least the last five years, Midas Gold has not taken

adequate steps to stop these discharges. These pollution discharges are recurring and will continue until appropriate control measures are implemented.

80. These pollution discharges from the Bonanza Adit are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

Cinnabar Tunnel

81. The Cinnabar Tunnel is a legacy adit, the entrance to which is located in the middle of the hillside east of the EFSF Salmon River upstream of the Glory Hole. Water emerges from the Cinnabar Tunnel as a seep. The Cinnabar Tunnel is located on Midas Gold's unpatented mining claim(s) at the Site. Midas Gold has conducted drilling in the vicinity.

82. The Cinnabar Tunnel discharges pollutants overland, including antimony and arsenic, into the EFSF Salmon River at, at least, three discrete, identifiable points.

83. Pollutants have been discharged from the Cinnabar Tunnel, including arsenic and antimony, into the EFSF Salmon River on a regular basis for at least five years preceding the date of this Complaint. Despite having access to, and control over, this area for at least the last five years, Midas Gold has not taken adequate steps to stop these discharges. These pollution discharges are recurring and will continue until appropriate control measures are implemented.

84. These pollution discharges from the Cinnabar Tunnel are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

Meadow Creek Adit

85. The Meadow Creek mine adit seep is located above the heap leach pile at the base of the Hangar Flats hillside. The seep is located upstream of the Glory Hole, adjacent to Meadow Creek, on a Midas Gold patented mining claim at the Site. Midas Gold has conducted drilling in the vicinity.

86. Monitoring data show the Meadow Creek Adit has discharged pollutants, including aluminum, antimony, arsenic, iron, manganese, and mercury, into the EFSF Salmon River.

87. The Meadow Creek mine adit seep discharges into a drainage ditch at the base of the hillside during the spring snowmelt season. Nez Perce Tribal staff observed water from this seep entering into the EFSF Salmon River, overland, in May 2018, and it has likely discharged on numerous other occasions when hydrologic conditions were similar. Despite having access to, and control over, this area for at least the last five years, Midas Gold has not taken adequate steps to stop these discharges. These pollution discharges are recurring and will continue until appropriate control measures are implemented.

88. These pollution discharges from the Meadow Creek Adit are not authorized by a valid NPDES permit(s) and are not otherwise exempt from CWA permitting requirements.

CLAIM FOR RELIEF

Violations of CWA § 301(a), 33 U.S.C. § 1311(a)

89. The Tribe realleges and incorporates by reference all preceding paragraphs.

90. Defendants, jointly and severally, have violated and continue to violate the CWA, 33 U.S.C. § 1311(a), by discharging pollutants from the above-identified point sources at the Site into waters of the United States without a valid NPDES permit(s) authorizing the discharges.

91. Such violations have occurred regularly or continuously for at least the last five years, are ongoing now, and will continue into the future, unless the Court grants relief as requested herein.

92. These violations are violations of an "effluent standard or limitation" as defined by the CWA. 33 U.S.C. § 1365(f).

93. Defendants are each a "person" under the CWA. *Id.* § 1362(5).

94. Defendants are an owner and/or operator of the facilities and activities where these point source discharges occurred and are continuing to occur under CWA regulations. 40 C.F.R. § 122.2.

95. Aluminum, antimony, arsenic, cyanide, iron, manganese, mercury, and thallium are pollutants under the CWA. 33 U.S.C. § 1362(6).

96. The EFSF Salmon River, Keyway Marsh, Meadow Creek, and Sugar Creek are "navigable waters" under the CWA. *Id.* § 1362(7).

97. The Glory Hole, Bradley Tailings Pile and Keyway Dam, Hangar Flats Tailings Pile, Bailey Tunnel, DMEA Adit and DMEA Waste Rock Dump, Bonanza Adit, Cinnabar Tunnel, and Meadow Creek are point sources that discharge pollutants under the CWA, because they each add pollutants to a water of the Unites States via one or more discernible, confined, and discrete conveyances. § 1362(12), (14).

98. Defendants own the patented claims within which the above-mentioned point sources are located and have plans to conduct further minerals operations at the Site, which encompasses all the above-mentioned patented and unpatented mining claim(s).

99. The Tribe is harmed by Defendants' CWA violations, and seeks declaratory and injunctive relief, as set forth below, plus an award of civil penalties for each and every CWA violation for the last five years and for each ongoing and future violation that occurs until judgment is entered in this case.

100. Defendants' ongoing CWA violations threaten continuing and irreparable harm to the EFSF and its water quality, fisheries, and other resources, and to the Tribe's interests,

warranting the entry of declaratory relief, injunctive relief and/or an award of civil penalties under the CWA.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff respectfully requests that this Court grant the following relief:

A. Declare, hold, and adjudge that Defendants, jointly and severally, are in violation of CWA Section 301, 33 U.S.C. § 1311(a), by discharging pollutants from each and all of the above-identified point sources without a valid NPDES permit(s);

B. Assess civil penalties, to be awarded to the U.S. Treasury, against Defendants, jointly and severally, for each CWA violation committed over the last five years, and each similar violation committed by Midas Gold until judgment is entered by this Court, pursuant to Section 309 of the CWA, 33 U.S.C. § 1319(d);

C. Enjoin Defendants, jointly and severally, under Section 505 of the CWA, 33 U.S.C. § 1365(a) and 28 U.S.C. § 2201-2202, from further discharging pollutants to the EFSF Salmon River, Keyway Marsh, Meadow Creek, Sugar Creek, or any other waters of the United States except as expressly authorized by the CWA in compliance with and the limitations and conditions of all applicable NPDES permit(s);

D. Enjoin Defendants, jointly and severally, under CWA Section 505, 33 U.S.C. § 1365(a) and 28 U.S.C. § 2201-2202, to take specific actions to evaluate and remediate the environmental harm caused by their CWA violations, to provide pollution monitoring and mitigation measures, and to implement any additional measures necessary to ensure Defendants' compliance with the CWA.

E. Grant such other preliminary and/or permanent injunctive relief as the Tribe may from time to time request during the pendency of this case to prevent further harm to the EFSR Salmon River and the Tribe's interests;

F. Award Plaintiff its reasonable litigation costs and expenses, including attorney and expert fees, incurred in bringing this action under CWA Section 505(d), 33 U.S.C. § 1365(d) and any other applicable cost and fee recovery statutes; and

G. Award such other relief as the Court may deem just and proper.

DATED this 8th day of August 2019.

Respectfully Submitted,

/s/ *Amanda Wright Rogerson*
Amanda Wright Rogerson (ISB No. 9885)
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Attorneys for Plaintiff Nez Perce Tribe

JS 44 (Rev. 02/19)

CIVIL COVER SHEET

The JS 44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. *(SEE INSTRUCTIONS ON NEXT PAGE OF THIS FORM.)*

I. (a) PLAINTIFFS

Nez Perce Tribe

(b) County of Residence of First Listed Plaintiff Nez Perce
(EXCEPT IN U.S. PLAINTIFF CASES)

(c) Attorneys *(Firm Name, Address, and Telephone Number)*

Amanda Wright Rogerson, Advocates of the West, P.O. Box 1612, Boise, ID 83701 (208) 342-7024 (SEE ATTACHMENT)

DEFENDANTS

Midas Gold Corp., Midas Gold Idaho, Inc., Idaho Gold Resources Company, LLC, and Stibnite Gold Company

County of Residence of First Listed Defendant
(IN U.S. PLAINTIFF CASES ONLY)

NOTE: IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE TRACT OF LAND INVOLVED.

Attorneys *(If Known)*

II. BASIS OF JURISDICTION *(Place an "X" in One Box Only)*

- ❒ 1 U.S. Government Plaintiff
- ☒ 3 Federal Question *(U.S. Government Not a Party)*
- ❒ 2 U.S. Government Defendant
- ❒ 4 Diversity *(Indicate Citizenship of Parties in Item III)*

III. CITIZENSHIP OF PRINCIPAL PARTIES *(Place an "X" in One Box for Plaintiff and One Box for Defendant)*

(For Diversity Cases Only)

	PTF	DEF		PTF	DEF
Citizen of This State	❒ 1	❒ 1	Incorporated *or* Principal Place of Business In This State	❒ 4	❒ 4
Citizen of Another State	❒ 2	❒ 2	Incorporated *and* Principal Place of Business In Another State	❒ 5	❒ 5
Citizen or Subject of a Foreign Country	❒ 3	❒ 3	Foreign Nation	❒ 6	❒ 6

IV. NATURE OF SUIT *(Place an "X" in One Box Only)*

Click here for: Nature of Suit Code Descriptions.

CONTRACT
- ❒ 110 Insurance
- ❒ 120 Marine
- ❒ 130 Miller Act
- ❒ 140 Negotiable Instrument
- ❒ 150 Recovery of Overpayment & Enforcement of Judgment
- ❒ 151 Medicare Act
- ❒ 152 Recovery of Defaulted Student Loans (Excludes Veterans)
- ❒ 153 Recovery of Overpayment of Veteran's Benefits
- ❒ 160 Stockholders' Suits
- ❒ 190 Other Contract
- ❒ 195 Contract Product Liability
- ❒ 196 Franchise

REAL PROPERTY
- ❒ 210 Land Condemnation
- ❒ 220 Foreclosure
- ❒ 230 Rent Lease & Ejectment
- ❒ 240 Torts to Land
- ❒ 245 Tort Product Liability
- ❒ 290 All Other Real Property

TORTS

PERSONAL INJURY
- ❒ 310 Airplane
- ❒ 315 Airplane Product Liability
- ❒ 320 Assault, Libel & Slander
- ❒ 330 Federal Employers' Liability
- ❒ 340 Marine
- ❒ 345 Marine Product Liability
- ❒ 350 Motor Vehicle
- ❒ 355 Motor Vehicle Product Liability
- ❒ 360 Other Personal Injury
- ❒ 362 Personal Injury - Medical Malpractice

PERSONAL INJURY
- ❒ 365 Personal Injury - Product Liability
- ❒ 367 Health Care/ Pharmaceutical Personal Injury Product Liability
- ❒ 368 Asbestos Personal Injury Product Liability

PERSONAL PROPERTY
- ❒ 370 Other Fraud
- ❒ 371 Truth in Lending
- ❒ 380 Other Personal Property Damage
- ❒ 385 Property Damage Product Liability

CIVIL RIGHTS
- ❒ 440 Other Civil Rights
- ❒ 441 Voting
- ❒ 442 Employment
- ❒ 443 Housing/ Accommodations
- ❒ 445 Amer. w/Disabilities - Employment
- ❒ 446 Amer. w/Disabilities - Other
- ❒ 448 Education

PRISONER PETITIONS

Habeas Corpus:
- ❒ 463 Alien Detainee
- ❒ 510 Motions to Vacate Sentence
- ❒ 530 General
- ❒ 535 Death Penalty

Other:
- ❒ 540 Mandamus & Other
- ❒ 550 Civil Rights
- ❒ 555 Prison Condition
- ❒ 560 Civil Detainee - Conditions of Confinement

FORFEITURE/PENALTY
- ❒ 625 Drug Related Seizure of Property 21 USC 881
- ❒ 690 Other

LABOR
- ❒ 710 Fair Labor Standards Act
- ❒ 720 Labor/Management Relations
- ❒ 740 Railway Labor Act
- ❒ 751 Family and Medical Leave Act
- ❒ 790 Other Labor Litigation
- ❒ 791 Employee Retirement Income Security Act

IMMIGRATION
- ❒ 462 Naturalization Application
- ❒ 465 Other Immigration Actions

BANKRUPTCY
- ❒ 422 Appeal 28 USC 158
- ❒ 423 Withdrawal 28 USC 157

PROPERTY RIGHTS
- ❒ 820 Copyrights
- ❒ 830 Patent
- ❒ 835 Patent - Abbreviated New Drug Application
- ❒ 840 Trademark

SOCIAL SECURITY
- ❒ 861 HIA (1395ff)
- ❒ 862 Black Lung (923)
- ❒ 863 DIWC/DIWW (405(g))
- ❒ 864 SSID Title XVI
- ❒ 865 RSI (405(g))

FEDERAL TAX SUITS
- ❒ 870 Taxes (U.S. Plaintiff or Defendant)
- ❒ 871 IRS—Third Party 26 USC 7609

OTHER STATUTES
- ❒ 375 False Claims Act
- ❒ 376 Qui Tam (31 USC 3729(a))
- ❒ 400 State Reapportionment
- ❒ 410 Antitrust
- ❒ 430 Banks and Banking
- ❒ 450 Commerce
- ❒ 460 Deportation
- ❒ 470 Racketeer Influenced and Corrupt Organizations
- ❒ 480 Consumer Credit
- ❒ 485 Telephone Consumer Protection Act
- ❒ 490 Cable/Sat TV
- ❒ 850 Securities/Commodities/ Exchange
- ❒ 890 Other Statutory Actions
- ❒ 891 Agricultural Acts
- ☒ 893 Environmental Matters
- ❒ 895 Freedom of Information Act
- ❒ 896 Arbitration
- ❒ 899 Administrative Procedure Act/Review or Appeal of Agency Decision
- ❒ 950 Constitutionality of State Statutes

V. ORIGIN *(Place an "X" in One Box Only)*

☒ 1 Original Proceeding ❒ 2 Removed from State Court ❒ 3 Remanded from Appellate Court ❒ 4 Reinstated or Reopened ❒ 5 Transferred from Another District *(specify)* ❒ 6 Multidistrict Litigation - Transfer ❒ 8 Multidistrict Litigation - Direct File

VI. CAUSE OF ACTION

Cite the U.S. Civil Statute under which you are filing ***(Do not cite jurisdictional statutes unless diversity)***:
33 U.S.C. § 1365(a)

Brief description of cause:
Violations of the Clean Water Act

VII. REQUESTED IN COMPLAINT:

❒ CHECK IF THIS IS A **CLASS ACTION** UNDER RULE 23, F.R.Cv.P.

DEMAND $

CHECK YES only if demanded in complaint:

JURY DEMAND: ❒ Yes ❒ No

VIII. RELATED CASE(S) IF ANY

(See instructions):

JUDGE _____ DOCKET NUMBER _____

DATE
08/09/2019

SIGNATURE OF ATTORNEY OF RECORD
/s/ Amanda Wright Rogerson

FOR OFFICE USE ONLY

RECEIPT # _____ AMOUNT _____ APPLYING IFP _____ JUDGE _____ MAG. JUDGE _____

ATTACHMENT TO CIVIL COVER SHEET

I.(c) Attorneys

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ATTACHMENT - 1

Nez Perce
TRIBAL EXECUTIVE COMMITTEE
P.O. BOX 305 • LAPWAI, IDAHO 83540 • (208) 843-2253

June 5, 2019

SENT VIA OVERNIGHT DELIVERY, SIGNATURE REQUIRED

Mr. Stephen Quin
President and CEO
Midas Gold Corp.
999 West Hastings St., Ste 890
Vancouver, British Columbia V6C 2W2

Corporation Services Company
Registered Agent for
Midas Gold Idaho, Inc.
12550 W. Explorer
Boise, ID 83713

Corporation Service Company
Registered Agent for
Idaho Gold Resources Company, LLC
12550 W. Explorer Dr., Suite 100
Boise, ID 83713

Corporation Service Company
Registered Agent for
Stibnite Gold Company
12550 W. Explorer Dr., Suite 100
Boise, ID 83713

Re: 60-Day Notice of Intent to Sue for Violations of the Clean Water Act

Dear Sirs/Madams:

I write on behalf of the Nez Perce Tribe ("Tribe") to provide legal notice ("Notice") of the Tribe's intent to initiate a federal court lawsuit against Midas Gold Corp., Idaho Gold Resources Company, LLC, Stibnite Gold Company, and Midas Gold Idaho, Inc. (all four related companies, collectively referred to below as "Midas Gold") under section 505(a) of the federal Clean Water Act ("CWA"), 33 U.S.C. § 1365(a), for unauthorized discharges of pollutants at the Stibnite Gold Project ("Project"). This Notice is provided to you in compliance with 33 U.S.C. § 1365(b) and 40 C.F.R. § 135.3(a).

As set forth below, you are discharging arsenic and other pollutants from various sources within the Project that are controlled by Midas Gold. These include several adits, the Bradley tailings pile and the Glory Hole, also known as the Yellow Pine Pit. All of these discharges are ongoing and are without the authorization of a National Pollutant Discharge Elimination ("NPDES") permit. These discharges enter various water bodies, including Meadow Creek, wetlands adjacent to Meadow Creek, Sugar Creek, and the East Fork of the South Fork of the Salmon River ("EFSF"). These water bodies provide habitat for salmon, bull trout, other species of fish,

and macroinvertebrate communities that support the fish populations. The unauthorized discharges of metals and other pollutants to these water bodies have harmed, and will continue to harm, the fisheries upon which Tribal members rely.

Unless you take the steps necessary to remedy these ongoing violations of the CWA, the Tribe intends to file suit in U.S. District Court following the expiration of the 60-day statutory notice period seeking penalties and declaratory and injunctive relief for your past and ongoing CWA violations.

The Nez Perce Tribe

The Tribe is a federally-recognized Indian tribe with headquarters on the Nez Perce Reservation in Lapwai, Idaho. Since time immemorial, the Tribe has occupied and used over 13 million acres of land now comprising north-central Idaho, southeast Washington, northeast Oregon, and parts of Montana for subsistence, ceremonial, commercial, and religious purposes. In 1855, the United States entered into a treaty with the Tribe. In this treaty, the Tribe explicitly reserved, and the United States secured, a permanent homeland as well as

> [T]he right of taking fish at all usual and accustomed places in common with the citizens of the Territory; and of erecting temporary buildings for curing, together with the privilege of hunting, gathering roots and berries, and pasturing their horses and cattle upon open and unclaimed land.[1]

The Project is geographically located within the Tribe's aboriginal territory (Exhibit 1); within the area adjudicated by the Indian Claims Commission to have been exclusively used and occupied by the Tribe, *Nez Perce Tribe v. United States,* Docket #175; and in an area over which the Tribe has treaty-reserved rights.

Tribal members, pursuant to their treaty-reserved rights, continue to fish, hunt, gather, and pasture across their vast aboriginal territory and at their traditional places, including areas within and surrounding the proposed Project site and in waters directly downstream of the proposed Project site. The Payette National Forest lands, on which the Project is partially located, provide irreplaceable habitat for tribal resources including spring/summer Chinook salmon, steelhead, bull trout, west slope cutthroat trout, redband rainbow trout, mountain whitefish, western pearl shell, Rocky Mountain bighorn sheep, North American wolverine, fisher, gray wolf, Clark's nutcracker, whitebark pine, limber pine, bent-flower milkvetch, Sacajawea's bitterroot, and Idaho Douglasia. Many traditional-use resources also occur on Payette National Forest lands, including within the proposed Project area, including: huckleberries, serviceberry, elk thistle, yarrow, wild onion, wild tobacco, Indian hemp, tule, elderberry, chokecherry, Indian tea, Oregon grape, thimbleberry, alder, birch, kowskows, elk, mule deer, moose, and white-tailed deer. Harm to these resources and their habitat may harm the Tribe and its members.

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[1] Treaty with the Nez Perces, June 11, 1855, Art. 3, 12 Stat. 957.

Unfortunately, many of the resources sacred to the Tribe are at risk of disappearing on the Payette National Forest. The EFSF contains three fish species listed as "threatened" under the Endangered Species Act ("ESA") of 1973: Snake River spring/summer Chinook salmon, Snake River steelhead, and bull trout. Mining operations in the 1940s and other habitat disturbances extirpated Spring/summer Chinook salmon in the upper EFSF. All of the EFSR is also designated critical habitat for Snake River spring/summer Chinook salmon, and the EFSF, downstream of the Glory Hole, along with Sugar Creek, is designated critical habitat for Snake River steelhead. The EFSF, Meadow Creek, West End Creek, and Fiddle Creek are also proposed critical habitat for bull trout. As part of the region's ongoing salmon restoration efforts throughout the Columbia River Basin, the Tribe currently outplants fish in the EFSF above the Glory Hole.

The EFSF watershed also includes sensitive native species that have become restricted in distribution and abundance, such as Pacific lamprey and west slope cutthroat trout. Bent-flower milkvetch, which occurs in the proposed Project area, is critically imperiled in Idaho, and the Fish and Wildlife Service has determined that whitebark pine, which also occurs in the proposed Project area, warrants protection under the ESA but that listing the species is precluded by the need to address other, higher priority listing actions. The proposed mine operations and the "Burntlog route" have the potential to disturb and eliminate habitat used by North American wolverine, a species under consideration for ESA listing. And, while several headwater valleys of the EFSF drainage adjacent to the existing disturbed area at the proposed mine site currently provide relatively healthy habitat for the species listed here, Midas Gold's proposed Project would completely backfill them with mining debris, eliminating or severely degrading their wildlife and aquatic habitat.

The Clean Water Act

Congress enacted the CWA in 1972 to "restore and maintain the chemical, physical, and biological integrity of the Nation's waters." 33 U.S.C. § 1251. To advance this goal, Section 301 of the CWA prohibits any "discharge of any pollutant by any person" to waters of the United States ("WOTUS") unless authorized by, and in compliance with, an NPDES permit. 33 U.S.C. § 1311(a); 33 U.S.C. § 1342.

"The centerpiece of the CWA is the NPDES permitting program." *American Iron & Steel Inst. v. EPA*, 115 F.3d 979, 990 (D.C. Cir. 1997). NPDES permits must include conditions that will ensure compliance with the CWA. At a minimum, NPDES permits must include technology-based effluent limits, any more stringent pollution limits necessary to meet water quality standards, and monitoring and reporting requirements. *See* 33 U.S.C. §§ 1311, 1318, and 1342. Once regulated by an NPDES permit, pollution discharges must strictly comply with all of the terms and conditions of that permit. *EPA v. California*, 426 U.S. 200, 205 (1976) ("it is unlawful for any person to discharge a pollutant without obtaining a permit and complying with its terms.")

The CWA defines "discharge" as "any addition of any pollutant to navigable waters from any point source." 33 U.S.C. § 1362(12)(A). The CWA defines "point source" to be "any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, … from which pollutants are or may be discharged." 33 U.S.C. § 1362(14). The term "pollutants" is broadly defined in the CWA to mean "dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water." 33 U.S.C. § 1362(6). The CWA defines navigable waters as "the waters of the United States, including the territorial seas." 33 U.S.C. § 1362(7).

Federal courts have ruled that discharges from mining-related ponds are a point source discharge. *See, e.g., Sierra Club v. Abston Construction Co., Inc.*, 620 F.2d 41, 45 (5th Cir. 1980) (sump pits into which miners channeled contaminated runoff and which sometimes overflowed into U.S. waters were point sources; "Gravity flow, resulting in a discharge of a pollutant into a navigable water, may be a point source discharge if miner at least initially collected or channeled the water and other materials."); *United States v. Earth Sciences, Inc.*, 599 F.2d 368, 374 (10th Cir. 1979); *Consolidation Coal Co. v. Costle*, 604 F.2d 239, 250 (4th Cir. 1979), *rev'd on other grounds sub nom EPA v. National Crushed Stone Association*, 449 U.S. 64 (1980) (challenge to regulations on mining wastewater that is "pumped, siphoned or drained from coal storage" rejected on grounds that definition of point source "excludes unchanneled and uncollected surface waters."); *Trustees for Alaska v. EPA*, 749 F.2d 549 (9th Cir. 1984) (placer mines held to be point sources; "[P]oint and non-point sources are not distinguished by the kind of pollution they create or by the activity causing the pollution, but rather by whether the pollution reaches the water through a confined, discrete conveyance.")

In addition, federal courts have made clear that waste rock piles, tailings dumps, adits and other disturbed lands at mine sites are point sources themselves because they act to collect and channel water contaminated by mine waste. *See, e.g., Washington Wilderness Coalition v. Hecla Mining Co.*, 870 F. Supp. 983, 988 (E.D. Wash. 1994) (held that a tailing pond is a point source; the "touchstone for finding a point source is the ability to identify a discrete facility from which pollutants have escaped."); *Abston Construction*, 620 F.2d at 45 (point source may be present where miner designed piles of overburden such that, during precipitation, erosion results in a discharge by means of ditches, gullies, and similar conveyances, even if the miner did nothing beyond mere collection of rock and other materials); *Beartooth Alliance v. Crown Butte Mines*, 904 F. Supp. 1168 (D. Mont. 1995) (historic discharges from adits and pits held to be point source discharges, not stormwater); *Idaho Conservation League v. Atlanta Gold Corp.*, 844 F. Supp. 2d 1116 (D. Idaho 2012) (mining company is liable for discharging arsenic and iron into creek from historic adit in violation of its NPDES permit).

Standard for 60-day Notice

Under 33 U.S.C. § 1365(b), "No action may be commenced … prior to sixty days after the plaintiff has given notice of the alleged violation (i) to the Administrator, (ii) to the State in

which the alleged violation occurs, and (iii) to any alleged violator of the standard, limitation, or order …" In accordance with that requirement, a copy of this Notice is being provided to the U.S. Environmental Protection Agency, the Idaho Department of Environmental Quality, and all of the addressees at the top of this letter and all of those copied at the bottom.

This Notice also complies with 40 C.F.R. section 135.3(a), which states in relevant part:

> Notice regarding an alleged violation of an effluent standard or limitation or of an order with respect thereto, shall include sufficient information to permit the recipient to identify the specific standard, limitation, or order alleged to have been violated, the activity alleged to constitute a violation, the person or persons responsible for the alleged violation, the location of the alleged violation, the date or dates of such violation, and the full name, address, and telephone number of the person giving notice.

The specific violations of the CWA addressed by this Notice are set out below, including the legal basis of the violation, the activity alleged to be in violation, the persons responsible for the alleged violations, and the dates and locations of the alleged violations. *San Francisco BayKeeper v. Tosco Corp.*, 309 F.3d 1153, 1155 (9th Cir. 2002) ("We hold that as long as a notice letter is reasonably specific as to the nature and time of the alleged violations, the plaintiff has fulfilled the notice requirement. The letter does not need to describe every detail of every violation; it need only provide enough information that the defendant can identify and correct the problem.")

Discharges at Stibnite Mine Subject to NPDES Permitting

The Stibnite Gold Project being run by Midas Gold is comprised of patented and unpatented claims within the larger Stibnite Gold Project area. The unauthorized point source discharges described below all occurred on lands located within Midas Gold patented or unpatented load claims, leased/contracted claims, or patented mill site claims. Midas Gold is responsible for all of the discharges listed below because they are all located on lands within the control of Midas Gold. *See West Virginia Highlands Conservancy, Inc. v. Huffman,* 625 F.3d 159 (4th Cir. 2010) (holding that state agencies engaged in cleanup efforts for reclamation of abandoned coal mining sites must obtain NPDES permits under the CWA, even if they did not create the discharge).

1. ***The Glory Hole***

The Glory Hole, also known as the Yellow Pine Pit, is located on Midas Gold patented land within the Project area. *See* Exhibit 2 (map). The Glory Hole is a man-made, open pit mining operation that was actively worked from about 1942 to 1952. It was formerly mined for gold, silver, copper, lead, tungsten, and antimony, and approximately 4.5 million tons of ore were removed from the pit prior to its closure about 1952. During active mining, the EFSF was routed around the pit through the Bailey Tunnel but was allowed to return to its natural course through the pit after the Bailey Tunnel was abandoned in 1955. The EFSF now runs through the pit, and

the pit has for years acted as a settling pond to capture contaminated sediments washing down from upstream sources with the Project area. Significant concentrations of mining-contaminated sediments have built up in the Glory Hole over the years.

The Glory Hole discharges metals downstream on a regular basis. The metals discharging downstream from the Glory Hole come from the pit walls, from pit wall seeps, and from the contaminated sediments in the bottom of the pit. Data collected upstream and downstream of the Glory Hole show it to be a major source of metals contamination to downstream waters. *See* "Occurrence and Transport of Selected Constituents in Streams near the Stibnite Mining Area, Central Idaho 2012-14." United States Geological Survey ("USGS") (2015).

Exhibit 3 (data) shows the known pollutant discharges from the Glory Hole to the EFSF for the period 2012-2016. The calculations of discharges to the EFSF take into account metals loading from sources entering the pit between the two EFSF sampling locations. The Glory Hole is more than just a pass-through of pollutants from upstream; it collects and concentrates contaminated sediments and discharges downstream elevated concentrations of metals leached from those sediments. Water conditions in the pit create chemistry within that pit that are amenable to metals leaching and mobilization of metal. The pit also adds pollutants from leaching of metals from the pit walls and from seeps within the Glory Hole.

The USGS in 2015 estimated that the Glory Hole reach contributed 2,150 pounds of arsenic, 1,010 pounds of antimony, and 617 pounds of dissolved manganese per year into the EFSF. A review of available data collected by Midas Gold shows that the pollutant loads downstream of the Glory Hole are 30% to 50% higher than those measured upstream. The Glory Hole has for years discharged the pollutants listed in Exhibit 3. Given the exposure of the sediments and the pit wall to the water in the Glory Hole and the water chemistry found within the Glory Hole, the reasonable expectation exists that it will continue to discharge those pollutants on a daily basis to the EFSF.

Midas Gold is a "person" as that term is defined in 33 U.S.C. § 1362(5) ("The term 'person' means an individual, corporation, partnership, association, State, municipality, commission, or political subdivision of a State, or any interstate body.") Midas Gold owns the patented claims within which the Glory Hole sits, and it has control over all discharges from the Glory Hole. Midas Gold has conducted exploratory drilling in and around the Glory Hole and has plans to remine this area to extract more ore from it. Consequently, it has responsibility for the discharges from the Glory Hole.

The Glory Hole is a confined, discrete conveyance of pollutants to WOTUS and is therefore a point source as that term is defined in 33 U.S.C. § 1362(14).

Monitoring shows that the Glory Hole has discharged concentrations of antimony, arsenic, iron, and manganese on numerous occasions into the EFSF. Upon information and belief, those discharges occur on a daily basis and are on-going. Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16).

These discharges from the Glory Hole are not authorized by a NPDES permit and are not otherwise exempt from the permitting requirements of the CWA.

The EFSF is a perennial tributary of the Salmon River, which is a navigable-in-fact water body. The EFSF is a navigable water under 33 U.S.C. § 1362(7), a water of the United States under 40 C.F.R. § 230.3, and it meets all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

2. *The Bradley Tailings Pile*

The Bradley Tailings Pile, also known as the Historic Tailings and Spent Ore Disposal Area, ("Tailings Pile") is located on Midas Gold patented land. It is a historic tailings deposit site located upstream of the Glory Hole, adjacent to Meadow Creek. *See* Exhibit 2 (map).

The Tailings Pile is comprised of mine tailings that contain high concentrations of arsenic, cyanide, and other pollutants. The downstream end of the Tailings Pile is constrained by a man-made structure known as the Keyway Dam. The Tailings Pile is not capped, so rain and snow melt infiltrate the Tailings Pile and come into contact with the fine tailings where they leach pollutants, including arsenic, and discharge those contaminated waters through the Keyway Dam into a wetland. The wetland is also referred to as the Keyway Marsh.

There are at least three surface discharge points from the Keyway Dam, and others may exist subsurface. *See* Exhibit 4 (representative photos). Midas Gold has labeled these three discharge points as sample areas YP-S-6, YP-S-7, and YP-S-8. *See* Exhibit 5 (map showing sampling locations). These discharges from the Keyway Dam flow across the surface of and through the Keyway Marsh and enter Meadow Creek a short distance from the base of the Keyway Dam. Midas Gold's sampling data showing discharges from these three sampling points are summarized in Exhibit 6.

The discharges from the Tailings Pile flow on the surface to and through the Keyway Marsh. From the Keyway Marsh, they discharge into Meadow Creek. *See* Exhibit 7 (representative photos). The Keyway Marsh outlet sampling point is designated YP-S-10. The data in Exhibit 8 (data) show that each time the discharges from the Keyway Marsh are sampled, they contain elevated levels of arsenic and other pollutants. Upon information and belief, the outlet has flowed on a daily basis for years. Given the structure of the Tailings Pile, the reasonable expectation exists that it will continue to discharge to Meadow Creek until appropriate control measures are installed. *See Id.*

The Keyway Marsh is a wetland as defined under 33 C.F.R. § 328.3(b) and under the 1987 Corps of Engineers Wetlands Manual. It directly abuts, and is adjacent to, Meadow Creek and shares both surface and subsurface hydrological connections with Meadow Creek. *See* Exhibits 7(a) and (b) (wetland index and Meadow Creek Sheet 18 maps). Meadow Creek is a perennial tributary

of the EFSF, which flows into the Salmon River, a navigable-in-fact water body. The Keyway Marsh and the adjacent Meadow Creek into which the Tailings Pile discharges are both navigable waters under 33 U.S.C. § 1362(7) and WOTUS under 40 C.F.R. § 230.3, and they both meet all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

The Tailings Pile itself and the seeps from its toe (the Keyway Dam) are confined, discrete conveyances of pollutants to WOTUS and are therefore point sources as that term is defined in 33 U.S.C. § 1362(14).

Midas Gold is a "person" as that term is defined in 33 U.S.C. § 1362(5). Midas Gold owns the patented claims on which the Tailings Pile sits, and it has control over all discharges from the Pile. Midas Gold has conducted exploratory drilling in and around the Tailings Pile and has plans to use this area for its future mining operations. Consequently, it has responsibility for the operation and maintenance of the Tailings Pile.

The Tailings Pile discharges elevated concentrations of arsenic and other pollutants on a daily basis, and can reasonably be expected to continue to discharge. Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16).

These discharges from the Tailings Pile are not authorized by an NPDES permit and not otherwise exempt from the permitting requirements of the CWA.

3. Hangar Flats Tailings Pile

The Hangar Flats Tailings Pile is located on Midas Gold patented land. It is a historic tailings deposit site that sits just northwest and downstream of the Bradley Tailings Pile and is also adjacent to Meadow Creek. *See* Exhibit 2 (map).

The Hangar Flats Tailings Pile is comprised of mine tailings that contain high concentrations of arsenic and other pollutants. The Hangar Flats Tailings Pile is not capped so rain and snow melt infiltrate the pile, come into contact with the fine tailings, and leach pollutants, including high concentrations of arsenic, through two seeps. These two seeps have been labeled sample areas YP-S-5 and YP-T-23A. Both seeps have been documented to flow into the flood plain of Meadow Creek multiple times during high water events. In 2014, YP-T-23A was documented flowing into Meadow Creek. *See* Exhibit 9 (representative photos). Upon information and belief, the Hangar Flats Tailings Pile has discharged to the hydrologically-connected Meadow Creek floodplain and to Meadow Creek on numerous occasions in the past and will continue to discharge to Meadow Creek.

Water quality data from both seeps indicate high concentrations of arsenic and other pollutants originating from the Hangar Flats Pile. Contaminated water from these two seeps has reached the

floodplain of Meadow Creek on multiple occasions and has been seen flowing into Meadow Creek on at least one occasion. *See* Exhibit 10 (data).

The Meadow Creek flood plain is hydrologically-connected to Meadow Creek and shares both surface and subsurface hydrological connections with Meadow Creek. Meadow Creek is a perennial tributary of the EFSF which flows into the Salmon River, which is a navigable-in-fact water body. Meadow Creek, into which the Hangar Flats Tailings Pile discharges, is a navigable water under 33 U.S.C. § 1362(7) and WOTUS under 40 C.F.R. § 230.3, and it meets all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

The Hangar Flats Tailings Pile itself and the seeps from its toe are confined, discrete conveyances of pollutants to WOTUS and are therefore point sources as that term is defined in 33 U.S.C. § 1362(14).

Midas Gold is a "person" as that term is defined in 33 U.S.C. § 1362(5). Midas Gold owns the patented claims on which the Hangar Flats Tailings Pile sits, and it has control over all discharges from the Hangar Flats Tailings Pile. Midas Gold has conducted exploratory drilling in and around the Hangar Flats Tailings Pile and has plans to use this area for its future mining operations. Consequently, it has responsibility for the operation and maintenance of the Hangar Flats Tailings Pile.

The Hangar Flats Tailings Pile discharges elevated concentrations of arsenic and other pollutants on a regular basis. Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16).

These discharges from the Hangar Flats Tailings Pile are not authorized by an NPDES permit and not otherwise exempt from the permitting requirements of the CWA.

4. The Bailey Tunnel

The Bailey Tunnel was constructed in about 1943 to divert the EFSF around the Glory Hole and into Sugar Creek. It has been abandoned since 1955, but it continues to discharge contaminated mine drainage into Sugar Creek. *See* Exhibit 11 (representative photos). Midas Gold has designated the Bailey Tunnel as sample location YP-AS-2. The Bailey Tunnel is located on patented land owned by Midas Gold Corp. *See* Exhibit 12 (map).

Monitoring data for the Bailey Tunnel shows that the discharges from the Bailey Tunnel consistently and on numerous occasions contain arsenic and other pollutants. *See* Exhibit 13 (data). The discharges from the Adit enter Sugar Creek. Given the nature of gravity flow of water through the Adit, the unauthorized discharges from the Adit can reasonably be expected to continue until appropriate control measures are installed.

Midas Gold owns the patented claims within which the Bailey Tunnel sits, and it conducted drilling in the vicinity. Midas Gold has control over and responsibility for the operation and maintenance of the Adit.

The Bailey Tunnel is a confined and discrete conveyance of pollutants to WOTUS and is therefore a point source as that term is defined in 33 U.S.C. § 1362(14).

The Bailey Tunnel discharges arsenic and other pollutants on a regular basis and will continue to discharge pollutants into Sugar Creek until proper control measures are installed. Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16).

Sugar Creek is a tributary of the EFSF, which is a perennial tributary of the Salmon River, a navigable-in-fact water body. Sugar Creek is a navigable water under 33 U.S.C. § 1362(7), a water of the United States under 40 C.F.R. § 230.3, and it meets all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

The Bailey Tunnel discharges are not authorized by an NPDES permit and are not otherwise exempt from CWA permitting requirements.

5. The DMEA Adit and DMEA Waste Rock Seep

The DMEA Adit is located between the Glory Hole and the Bradley Tailings Pile on an unpatented Midas Gold claim. The DMEA Adit infiltrates into the DMEA Waste Rock Dump, and emerges as a seep at the toe of the DMEA Waste Rock Dump, which flows into the EFSF. These discharge points are designated as sample points YP-AS-6 and YP-T-17. *See* Exhibit 12 (map) and Exhibit 14 (representative photos).

Discharges from the DMEA Adit and Waste Rock Dump to the EFSF contain arsenic and other metals. These discharges occur on a regular basis. *See* Exhibit 15 (data). Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16). The DMEA Adit and the Waste Rock Dump are confined and discrete conveyances of pollutants to WOTUS and are therefore point sources as that term is defined in 33 U.S.C. § 1362(14). Given the nature of gravity flow of water through the DMEA Adit and the porous Waste Rock Dump, the unauthorized discharges from the DMEA Adit and Waste Rock Seepcan reasonably be expected to continue until appropriate control measures are installed.

The EFSF is a perennial tributary of the Salmon River, which is a navigable-in-fact water body. The EFSF is a navigable water under 33 U.S.C. § 1362(7), a water of the United States under 40 C.F.R. § 230.3, and it meets all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

Midas Gold has asserted its rights to the unpatented claims within which the DMEA Adit and Waste Rock Dump sit and has conducted drilling in the near vicinity. Midas Gold has control over, and responsibility for, the discharges from the DMEA Adit and Waste Rock Dump.The DMEA Adit discharges are not authorized by an NPDES permit and are not otherwise exempt from CWA permitting requirements.

6. The Bonanza Adit

The Bonanza Adit discharges to the floodplain of Sugar Creek, which is a perennial tributary of the EFSF. The Bonanza Adit is designated as sample point YP-AS-1. *See* Exhibit 12 (map). Representative photos of the Bonanza Adit discharge are set out in Exhibit 16.

The Bonanza Adit has been measured to discharge elevated concentrations of arsenic and other pollutants into the Sugar Creek floodplain on several occasions. *See* Exhibit 17 (data). Upon information and belief, the Adit discharges reach Sugar Creek through shallow subsurface hydrologic connections. Given the nature of gravity flow of water through the Adit, the unauthorized discharges from the Adit can reasonably be expected to continue until appropriate control measures are installed.

Midas Gold owns the rights to the unpatented claims within which the Bonanza Adit sits and has conducted drilling in the near vicinity. The company has control over and responsibility for discharges from the Adit.

The Bonanza Adit is a confined and discrete conveyance of pollutants to WOTUS and is therefore a point source as that term is defined in 33 U.S.C. § 1362(14).

The Bonanza Adit discharges arsenic and other pollutants on a regular basis. Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16).

Sugar Creek is a tributary of the EFSF, which is a perennial tributary of the Salmon River, a navigable-in-fact water body. Sugar Creek is a navigable water under 33 U.S.C. § 1362(7), a water of the United States under 40 C.F.R. § 230.3, and it meets all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

The Bonanza Adit discharges are not authorized by an NPDES permit and are not otherwise exempt from CWA permitting requirements.

7. The Cinnabar Tunnel

The entrance to the Cinnabar Tunnel, which Midas Gold designates as sample point YP-AS-4, is located upstream of the Glory Hole adjacent to the EFSF on one of Midas Gold's unpatented

claims within the larger Project area. Midas Gold has conducted drilling in the near vicinity. The Cinnabar Tunnel discharges to the EFSF in at least three discrete areas. *See* Exhibit 12 (map). Representative photos of the discharge are attached in Exhibit 18.

The Cinnabar Tunnel discharges arsenic and antimony into the EFSF on a regular basis. *See* Exhibit 19 (data). Given the nature of gravity flow of water through the tunnel, the unauthorized discharges from the tunnel can reasonably be expected to continue until appropriate control measures are installed.
Midas Gold has control over and responsibility for discharges from the Adit.

The Cinnabar Tunnel is a confined and discrete conveyance of pollutants to WOTUS and is therefore a point source as that term is defined in 33 U.S.C. § 1362(14).

The Cinnabar Tunnel discharges arsenic and antimony to the EFSF on a regular basis. Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16).

The EFSF is a perennial tributary of the Salmon River, which is a navigable-in-fact water body. The EFSF is a navigable water under 33 U.S.C. § 1362(7), a water of the United States under 40 C.F.R. § 230.3, and it meets all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

The Cinnabar Tunnel discharges are not authorized by an NPDES permit and are not otherwise exempt from CWA permitting requirements.

8. The Meadow Creek Adit

The Meadow Creek Adit, which Midas Gold has designated at sample point YP-AS-7, is located upstream of the Glory Hole, adjacent to Meadow Creek. The Meadow Creek Adit discharges to the EFSF via overland flow during times of high flow. The Meadow Creek Adit is located on patented land owned by Midas Gold. *See* Exhibit 12 (map). Exhibit 20 contains representative photos of the discharge.

Monitoring data for the Meadow Creek Adit shows that it has discharged arsenic and other pollutants into the EFSF. *See* Exhibit 21 (data). Given the nature of gravity flow of water through the Meadow Creek Adit, its unauthorized discharges can reasonably be expected to continue until appropriate control measures are installed.

Midas Gold owns the patented claims within which the Meadow Creek Adit sits and has conducted drilling in the near vicinity. Midas Gold has control over and responsibility for the discharges from the Meadow Creek Adit.

The Meadow Creek Adit is a confined and discrete conveyance of pollutants to WOTUS and is therefore a point source as that term is defined in 33 U.S.C. § 1362(14).

The Meadow Creek Adit discharges arsenic and other pollutants into the EFSF. Those discharges constitute discharges of pollutants as those terms are used in 33 U.S.C. § 1362(6), (12), and (16).

The EFSF is a perennial tributary of the Salmon River, which is a navigable-in-fact water body. The EFSF is a navigable water under 33 U.S.C. § 1362(7), a water of the United States under 40 C.F.R. § 230.3, and it meets all of the criteria for jurisdiction under the 2008 EPA/Corps *Rapanos* Guidance. EPA/USACOE, "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States*" (December 2, 2008).

The Meadow Creek Adit discharges are not authorized by an NPDES permit and are not otherwise exempt from CWA permitting requirements.

Party Giving Notice

The person giving notice here is:

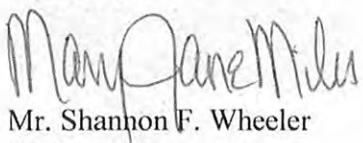
Shannon F. Wheeler, Chairman
Nez Perce Tribe
P.O. Box 305
Lapwai, ID 83540
nptec@nezperce.org

Conclusion

If Midas Gold continues to discharge from the above-identified point sources without NPDES permits, the Tribe intends to file suit in Federal District Court. We are providing this letter to comply with the CWA Section 505(b) notice requirements and in the hope of preventing future violations of the CWA and further degradation of water quality in the EFSF and its tributaries, which are important historic fishing grounds for Tribal members.

One of the purposes of the CWA Section 505(b) notice requirements is to remedy and cure the underlying violations short of litigation. This 60-day notice period also provides an opportunity for the parties to discuss resolution of these violations; the Tribe's legal staff will be available to discuss resolution of the matters set out in this letter.

Sincerely,



FOR: Mr. Shannon F. Wheeler
Chairman

cc: Mr. Andrew Wheeler, Administrator
U.S. EPA
1200 Pennsylvania Avenue, N.W.
Mail Code: 1101A
Washington, D.C. 20460

Mr. Chris Hladick, Regional Administrator
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Mail Code: 21-B03
Seattle, WA 98101

Mr. James Werntz, Director
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Ms. Allyn Stern, Regional Counsel
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Ms. Laurel Sayer, President
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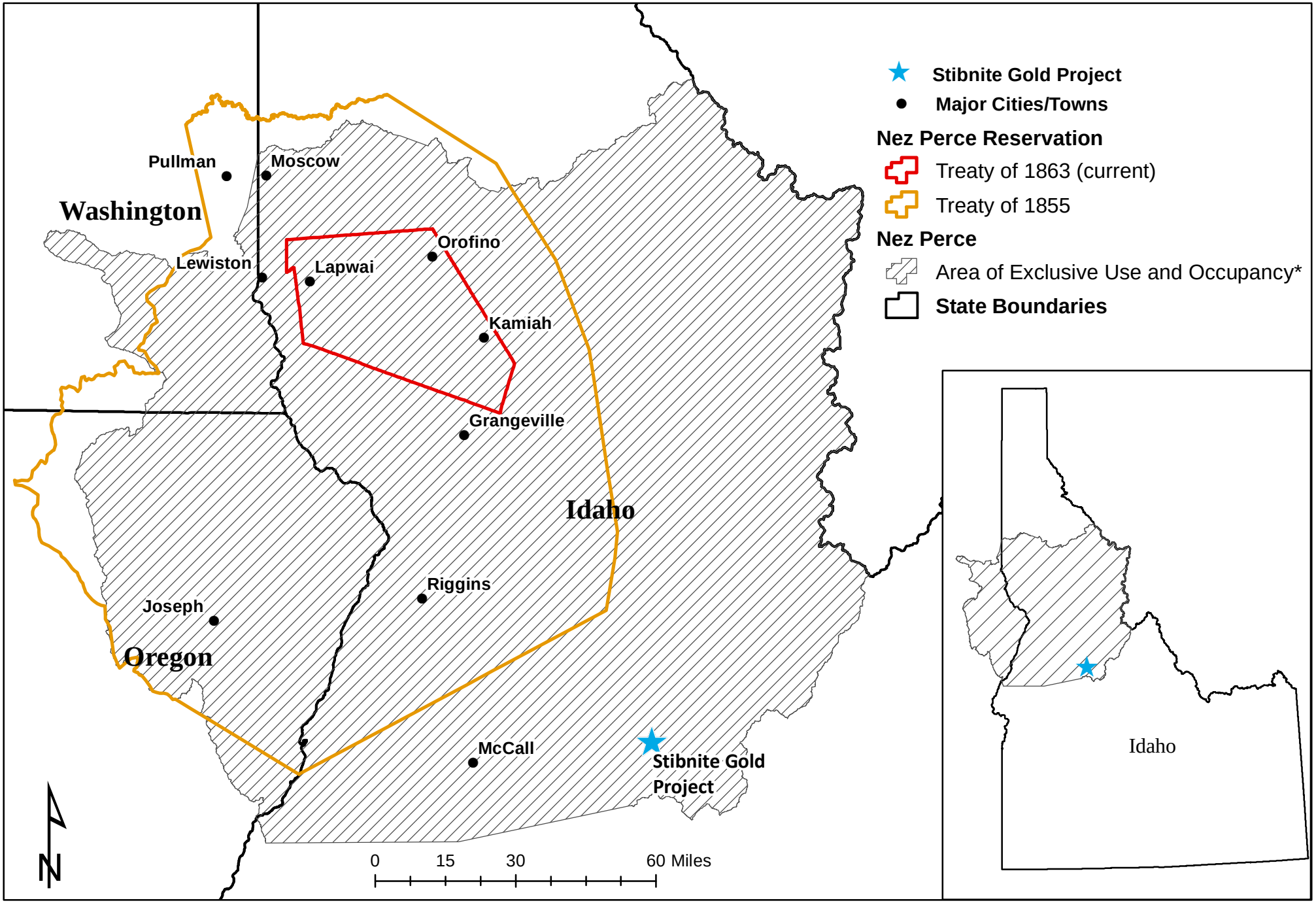
Boise, ID 83702

Mr. Anthony Botello, District Ranger
Payette National Forest
500 North Mission Street
McCall, ID 83638

Mr. Keith Lannom, Forest Supervisor
Payette National Forest
500 North Mission Street
McCall, ID 83638

List of Exhibits

1 Nez Perce Tribal Boundaries map
2 Map of patented Stibnite Mine patented claims
3 Glory Hole discharge data
4 Keyway Dam photos
5 Bradley Tailings Pile sample locations
6 Keyway Dam seeps data
7 Keyway Marsh photos
8 Keyway Marsh outlet data
9 Hangar Flats photos
10 Hangar Flats seep data
11 Bailey Tunnel Adit data
12 Map showing sampling points for adits and tunnels
13 Bailey Tunnel Adit Data
14 DMEA seep photos
15 DMEA seep data
16 Bonanza Adit photos
17 Bonanza Adit data
18 Cinnabar Tunnel photos
19 Cinnabar Tunnel data
20 Meadow Creek adit photos
21 Meadow Creek adit data



*The Indian Claims Commission determined this area to have been exclusively used and occupied by the Nez Perce Tribe.
Nez Perce Tribe v. United States, Docket 175, 18 Indian Claims Commission I (1967)

Figure 4.2: Legacy Environmental Liabilities

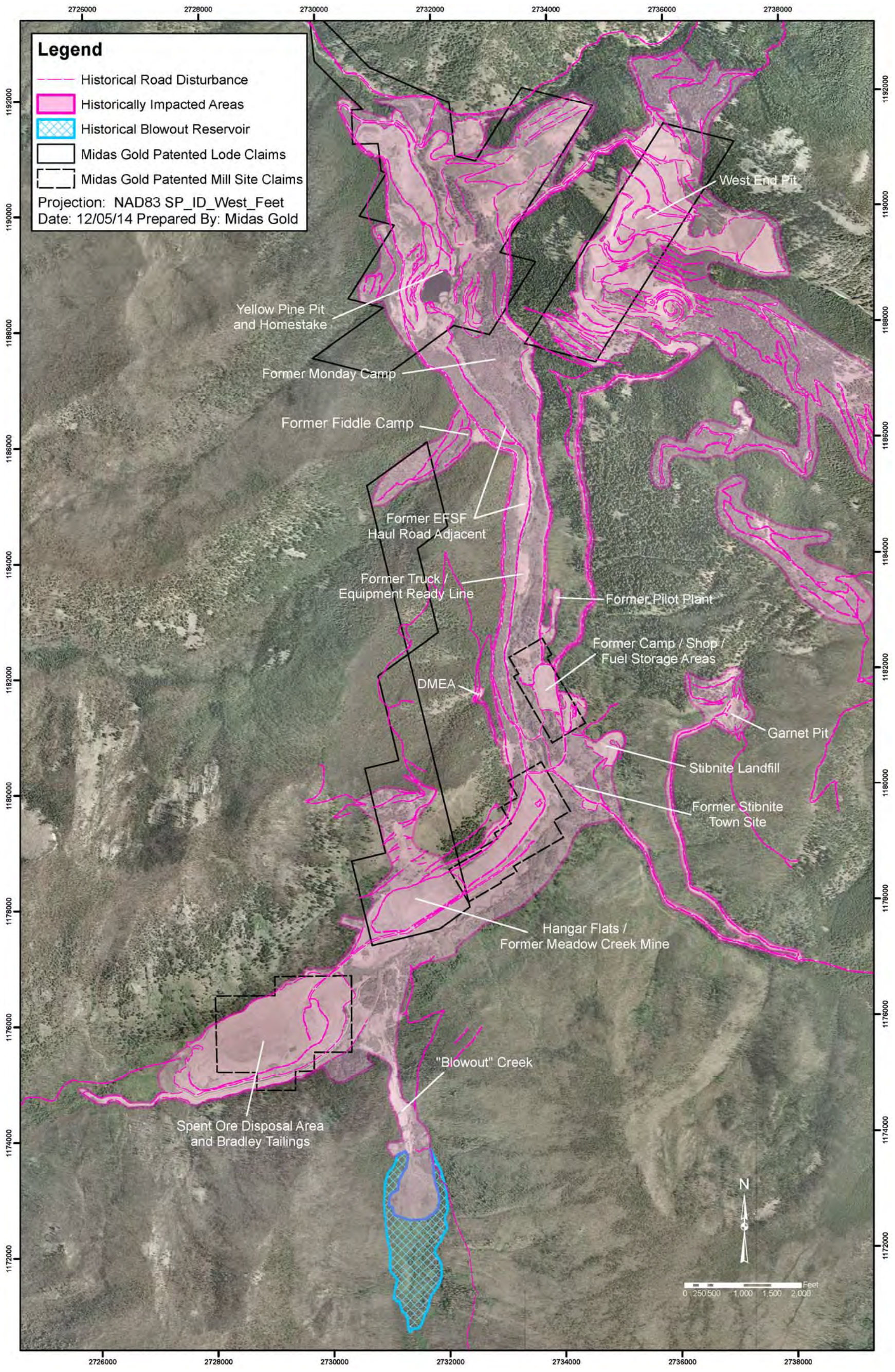


Exhibit 3 – Data Collected from the Glory Hole Reach in the EFSFSR

Table 3A. Summary statistics of antimony, arsenic, iron, and manganese concentrations collected from above (YP-SR-6) and below (YP-SR-4) the Glory Hole reach in the EFSFSR.

Summary Statistics of Measured Concentrations (µg/L)								
µg/L	**Antimony**		**Arsenic**		**Iron**		**Manganese**	
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**
EFSFSR above the Glory Hole (YP-SR-6)								
Minimum	6.4	6.4	12.6	13.0	0.0	48.6	0.0	8.8
Maximum	46.9	47.3	41.4	45.6	54.3	382.0	15.4	21.1
Average	19.7	20.1	30.2	32.4	24.0	139.9	8.8	15.0
Median	16.5	17.8	32.5	34.1	28.2	114.0	9.4	14.2
# Samples	35	35	35	35	35	35	20	20
EFSFSR below the Glory Hole (YP-SR-4)								
Minimum	10.4	10.2	20.8	22.0	0.0	74.0	5.7	12.3
Maximum	62.0	62.2	105.0	115.0	98.7	589.0	50.6	59.5
Average	31.0	31.5	60.9	69.2	56.8	216.3	21.5	30.1
Median	30.0	29.9	64.7	73.9	55.9	186.0	20.5	28.8
# Samples	35	35	35	35	35	35	20	20

Table 3B. Summary statistics of calculated antimony, arsenic, iron, and manganese total loads from above (YP-SR-6) and below (YP-SR-4) the Glory Hole reach in the EFSFSR. Three small tributaries enter the EFSFSR between the two river sites. Combined, the three tributaries contributed to less than 5% of the associated median total load increase.

Summary Statistics of Calculated Total Loads (lbs/day)								
lbs/day	**Antimony**		**Arsenic**		**Iron**		**Manganese**	
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**
EFSFSR above the Glory Hole (YP-SR-6)								
Minimum	0.8	0.8	1.3	1.3	0.0	3.3	0.0	0.5
Maximum	23.4	24.5	27.1	31.3	11.4	430.9	3.9	23.7
Average	4.3	4.5	6.2	6.8	3.0	50.3	1.5	4.1
Median	2.1	2.1	3.1	3.4	2.2	11.6	1.0	1.7
# Samples	35	35	35	35	35	35	20	20
EFSFSR below the Glory Hole (YP-SR-4)								
Minimum	1.6	1.6	3.3	3.7	0.0	6.2	0.8	1.0
Maximum	41.2	43.8	40.4	56.5	42.2	651.6	9.6	23.1
Average	6.5	6.7	10.4	12.0	9.3	66.2	3.6	5.9
Median	3.2	3.5	7.3	8.1	6.7	19.8	2.8	3.6
# Samples	35	35	35	35	35	35	20	20

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved		Ammonia as Nitrogen	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50		NA	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
YP-SR-4	4	2012	205	--	NM	--	0.064	--	11.1	--	8.4	--	3.0	--	41	--	24	J+	NM	--	NM	--	< 0.050	U
YP-SR-4	5	2012	227	--	0	--	0.051	--	10.1	--	7.7	--	5.2	--	16	--	22.4	--	134	--	18.2	--	< 0.050	U
YP-SR-4	6	2012	144	--	0	--	0.055	--	9.9	--	7.4	--	8.0	--	3.6	--	23.3	--	NM	--	NM	--	< 0.050	U
YP-SR-4	7	2012	38	--	NM	--	NM	--	8.4	--	NM	--	15.6	--	27	--	40.7	J+	NM	--	NM	--	< 0.050	U
YP-SR-4	8	2012	17	--	0	--	0.121	--	RM	R	7.6	--	14.5	--	1.1	--	48.3	--	30.6	--	7.2	J+	< 0.050	U
YP-SR-4	9	2012	14	--	NM	--	0.119	--	8.9	--	7.7	--	10.7	--	0.4	--	49.1	--	NM	--	NM	--	< 0.050	U
YP-SR-4	10	2012	12	--	NM	--	0.133	--	8.9	--	7.3	--	9.3	--	0.8	--	51.8	--	NM	--	NM	--	< 0.050	U
YP-SR-4	11	2012	17	--	0	--	0.117	--	10.3	--	7.5	--	3.6	--	4.3	--	39.7	--	91.7	--	10.4	--	< 0.050	U
YP-SR-4	12	2012	21	--	NM	--	0.136	--	12.5	--	7.1	--	0.5	--	3.8	--	45.1	--	NM	--	NM	--	< 0.050	U
YP-SR-4	1	2013	10	--	NM	--	0.139	--	11.0	--	7.6	--	1.1	--	2.5	--	48.7	--	NM	--	NM	--	< 0.050	U
YP-SR-4	2	2013	10	--	0	--	0.143	--	11.2	--	7.7	--	0.6	--	2.4	--	49.1	--	13.1	--	4.3	--	< 0.050	U
YP-SR-4	3	2013	12	--	NM	--	0.132	--	11.2	--	7.5	--	2.2	--	3.0	--	48.4	--	NM	--	NM	--	< 0.050	U
YP-SR-4	4	2013	38	--	NM	--	0.132	--	10.5	--	7.0	--	2.8	--	6.1	--	38.9	--	NM	--	NM	--	< 0.050	U
YP-SR-4	5	2013	212	--	0	--	RM	R	10.0	--	6.7	--	4.9	--	7.0	--	22.1	--	206	--	23.8	--	< 0.050	U
YP-SR-4	6	2013	116	--	NM	--	0.079	--	9.4	--	6.7	--	10.3	--	0.6	--	23.7	--	NM	--	NM	--	< 0.050	U
YP-SR-4	7	2013	31	--	NM	--	0.110	--	8.3	--	6.9	--	12.7	--	2.3	--	39.8	--	NM	--	NM	--	< 0.050	U
YP-SR-4	8	2013	12	--	0	--	0.130	--	8.2	--	7.1	--	14.3	--	2.6	--	48.8	--	23.2	--	6.8	--	< 0.050	U
YP-SR-4	9	2013	11	--	NM	--	0.130	--	8.6	--	7.4	--	11.5	--	4.5	--	50.9	--	NM	--	NM	--	< 0.050	U
YP-SR-4	10	2013	30	--	NM	--	0.104	--	10.7	--	7.4	--	4.7	--	4.9	--	40.6	--	NM	--	NM	--	< 0.050	U
YP-SR-4	11	2013	16	--	0	--	0.128	--	11.4	--	7.3	--	1.6	--	2.4	--	55	--	16.8	--	6.6	--	< 0.050	U
YP-SR-4	12	2013	14	--	NM	--	0.126	--	12.3	--	7.4	--	0.2	--	3.6	--	53	--	NM	--	NM	--	< 0.050	U
YP-SR-4	1	2014	10	--	NM	--	0.117	--	11.6	--	7.2	--	0.8	--	3.7	--	55	--	NM	--	NM	--	< 0.050	U
YP-SR-4	2	2014	9.9	--	0	--	0.120	--	11.2	--	7.7	--	0.3	--	3.1	--	58	J	10.6	J+	3.8	J+	< 0.05	U
YP-SR-4	3	2014	16	--	NM	--	0.121	--	11.7	--	8.3	--	1.6	--	2.2	--	83	J+	82.6	--	28.1	--	< 0.05	U
YP-SR-4	4	2014	35	--	NM	--	0.114	--	11.0	--	7.7	--	3.2	--	7.4	--	40	--	195	--	20.5	--	< 0.050	U
YP-SR-4	5	2014	91	--	0	--	0.086	--	10.8	--	7.3	--	4.6	--	5.4	--	32	--	135	--	20.7	--	< 0.050	U
YP-SR-4	6	2014	126	--	NM	--	0.057	--	10.4	--	7.0	--	5.5	--	3.2	--	25	--	71	--	16.4	--	< 0.050	U
YP-SR-4	7	2014	49	--	NM	--	0.081	--	9.2	--	7.8	--	16.8	--	1.9	--	38	--	29	--	11.9	--	< 0.050	U
YP-SR-4	8	2014	20	--	0	--	0.108	--	8.6	--	7.9	--	12.5	--	1.1	--	44	--	18.2	--	5.6	--	< 0.050	U
YP-SR-4	11	2014	16	--	0	--	0.109	--	10.9	--	7.4	--	4.2	--	2.0	--	47	--	26	--	5.8	--	< 0.050	U
YP-SR-4	2	2015	16	--	0	--	0.124	--	11.5	--	8.5	--	1.6	--	5.9	--	48	--	48.8	--	22.6	--	< 0.050	U
YP-SR-4	5	2015	115	--	0	--	0.057	--	10.7	--	7.3	--	4.5	--	8.0	--	25	--	87.9	--	17.3	--	< 0.050	U
YP-SR-4	8	2015	13	--	0	--	0.123	--	8.9	--	8.2	--	13.0	--	2.0	--	53	--	19.8	--	5.3	--	< 0.05	U
YP-SR-4	11	2015	10	--	0	--	0.122	--	11.5	--	8.0	--	0.8	--	5.6	--	49	--	8.9	--	3.1	--	< 0.05	U
YP-SR-4	2	2016	7.7	--	0	--	0.127	--	11.6	--	7.4	--	0.3	--	0	--	50	--	6.2	--	2.5	--	< 0.05	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

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Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
39.6	--	37.2	--	NM	--	51.1	--	36.5	--	NM	--	NM	--	NM	--	NM	--	24	J+	NM	--	NM	--
15.9	--	15.7	--	1.3	J	25.6	--	21.9	--	7.8	J+	6.2	J+	< 0.02	U	< 0.02	U	22.4	--	< 50.0	U	< 50.0	U
12.2	--	11.8	--	NM	--	22.4	--	20.8	--	NM	--	NM	--	NM	--	NM	--	23.3	--	NM	--	NM	--
16.9	--	16.2	--	NM	--	49.9	--	43.6	--	NM	--	NM	--	NM	--	NM	--	40.7	J+	NM	--	NM	--
25.7	--	25.2	--	6.3	--	80.3	--	69.4	--	13	--	12.3	--	< 0.02	U	< 0.02	U	48.3	--	< 10.0	U	< 10.0	U
27	--	26.4	--	NM	--	88	--	76.6	--	NM	--	NM	--	NM	--	NM	--	49.1	--	NM	--	NM	--
26.8	--	26	--	NM	--	87.4	--	74.6	--	NM	--	NM	--	NM	--	NM	--	51.8	--	NM	--	NM	--
28.1	--	27.7	--	8.9	--	59.5	--	54.2	--	12.4	--	11	--	< 0.02	U	< 0.02	U	39.7	--	< 50.0	U	< 50.0	U
47.4	--	47.5	--	NM	--	78	--	71.6	--	NM	--	NM	--	NM	--	NM	--	45.1	--	NM	--	NM	--
30.8	--	30.2	--	NM	--	71.8	--	62.9	--	NM	--	NM	--	NM	--	NM	--	48.7	--	NM	--	NM	--
29.9	--	30	--	10.9	--	68.9	--	61	--	13	J+	12.6	J+	< 0.02	U	< 0.02	U	49.1	--	< 50.0	U	< 50.0	U
34.6	--	33.6	--	NM	--	79.7	--	63.2	--	NM	--	NM	--	NM	--	NM	--	48.4	--	NM	--	NM	--
62.2	--	62	--	NM	--	74.4	--	61.3	--	NM	--	NM	--	NM	--	NM	--	38.9	--	NM	--	NM	--
17.2	--	16	--	1.6	--	26.8	--	22.4	--	9.05	J+	6.46	J+	0.03	--	< 0.02	U	22.1	--	< 20.0	U	< 20.0	U
10.2	--	10.4	--	NM	--	22	--	21.4	--	NM	--	NM	--	NM	--	NM	--	23.7	--	NM	--	NM	--
21.4	--	19.2	--	NM	--	66.2	--	59.7	--	NM	--	NM	--	NM	--	NM	--	39.8	--	NM	--	NM	--
28.5	--	29.3	--	3.3	--	89.4	--	80.2	--	13	J+	12.6	J+	< 0.02	U	< 0.02	U	48.8	--	< 40.0	UJ	< 40.0	UJ
31.9	--	30.3	--	NM	--	103	--	94.9	--	NM	--	NM	--	NM	--	NM	--	50.9	--	NM	--	NM	--
27.6	--	27.4	--	NM	--	50.6	--	47.3	--	NM	--	NM	--	NM	--	NM	--	40.6	--	NM	--	NM	--
28.7	--	30.3	--	9.6	--	71.9	--	67.7	--	11.4	J+	11.6	J+	< 0.02	U	< 0.02	U	55	--	< 20.0	U	< 20.0	U
43.4	--	43.3	--	NM	--	79	--	73.4	--	NM	--	NM	--	NM	--	NM	--	53	--	NM	--	NM	--
35.8	--	35.3	--	NM	--	88.5	--	77.4	--	NM	--	NM	--	NM	--	NM	--	55	--	NM	--	NM	--
32.7	--	33	J	6.56	--	73.9	--	64.7	--	12	J+	11.8	J+	< 0.02	U	< 0.02	U	53	J	< 20	U	< 20	U
46.3	--	44.8	--	NM	--	91	--	73.2	--	NM	--	NM	--	NM	--	NM	--	68	J+	NM	--	NM	--
56.1	--	55	--	NM	--	89.6	--	65.5	--	NM	--	NM	--	NM	--	NM	--	40	--	NM	--	NM	--
51.2	--	51	--	5.22	--	59.1	--	56.5	--	10.8	J+	9.78	J+	< 0.02	U	< 0.02	U	32	--	< 20.0	U	< 20.0	U
13.1	--	12.7	--	NM	--	27.4	--	25.8	--	NM	--	NM	--	NM	--	NM	--	25	--	NM	--	NM	--
18.8	--	18.6	--	NM	--	54.7	--	54	--	NM	--	NM	--	NM	--	NM	--	38	--	NM	--	NM	--
32.3	--	30	--	4.9	--	102	--	89.7	--	12.2	--	11	--	< 0.02	U	< 0.02	U	44	--	< 20.0	U	< 20.0	U
35.1	--	35.9	--	8.7	--	84.9	--	80.8	--	11.8	--	11.7	--	< 0.02	U	< 0.02	U	47	--	< 20.0	U	< 20.0	U
52.8	--	53.1	--	9.8	--	100	--	84	--	12.7	--	12	--	0.05	--	0.03	--	48	--	< 20.0	UJ	< 20.0	UJ
14	--	13.4	--	3.8	--	27.3	--	22.9	--	7.51	--	6.49	--	< 0.02	U	< 0.02	U	25	--	< 20.0	U	< 20.0	U
40.4	--	38.7	--	2.06	--	115	--	105	--	13.9	--	13.3	--	< 0.02	U	< 0.02	U	53	--	< 20	U	< 21.3	U
29.6	--	29.7	--	8.2	--	73.9	--	69	--	12	--	12	--	< 0.02	U	< 0.02	U	49	--	< 20	U	< 20	U
39.3	--	38.4	--	10	--	89.3	--	79.4	--	13.2	--	12.9	--	< 0.02	U	< 0.02	U	50	--	< 20	U	< 20	U

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Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	7850	- -	7500	- -	< 9.0	U	< 0.40	U	0.4	J+	< 0.2	U	NM	- -	NM	- -	0.6	J+	0.4	J+	NM	- -
< 0.02	U	< 0.02	U	6260	- -	5900	- -	< 9.0	U	< 0.40	U	0.4	J+	< 0.2	U	0.1	J+	0.05	J+	0.2	- -	0.2	J	< 0.0047	U
< 0.02	U	< 0.02	U	6870	- -	6830	- -	< 9.0	U	< 0.40	U	< 0.2	U	0.4	J	NM	- -	NM	- -	0.2	- -	0.2	- -	NM	- -
< 0.02	U	< 0.02	U	11100	- -	11200	- -	< 9.0	U	< 0.40	U	0.3	J+	0.3	J+	NM	- -	NM	- -	0.4	- -	0.3	- -	NM	- -
< 0.02	U	< 0.02	U	14600	- -	14000	- -	< 9.0	U	0.56	- -	0.3	J+	0.3	J+	0.16	J+	0.13	J+	0.2	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	14800	- -	14700	- -	< 9.0	U	0.73	- -	0.2	- -	< 0.2	U	NM	- -	NM	- -	0.1	- -	0.2	- -	NM	- -
< 0.02	U	< 0.02	U	15800	- -	16000	- -	< 9.0	U	0.85	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.1	- -	0.2	- -	NM	- -
< 0.02	U	< 0.02	U	12800	- -	12600	- -	< 9.0	U	0.96	- -	< 0.2	U	< 0.2	U	0.14	J+	0.11	J+	0.2	- -	0.2	- -	< 0.0047	U
< 0.02	U	< 0.02	U	15300	- -	15500	- -	< 9.0	U	0.98	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.2	- -	0.3	J+	NM	- -
< 0.02	U	< 0.02	U	15400	- -	14900	- -	< 9.0	U	0.77	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.2	J+	0.2	J+	NM	- -
< 0.02	U	< 0.02	U	15200	- -	15900	- -	< 9.0	U	0.81	- -	< 0.2	U	< 0.2	U	0.2	J+	0.2	J+	0.2	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	16200	- -	16000	- -	< 9.0	U	0.81	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.2	J+	0.3	J+	NM	- -
< 0.02	U	< 0.02	U	13600	- -	13400	- -	< 9.0	U	0.75	- -	0.5	J+	< 0.2	U	NM	- -	NM	- -	0.6	J+	0.5	J+	NM	- -
< 0.02	U	< 0.02	U	6140	- -	6040	- -	< 9.0	U	< 0.40	U	0.2	J+	0.4	J+	0.1	J+	0.05	J+	0.3	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	6560	- -	6410	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.2	J+	0.4	J+	NM	- -
< 0.02	U	< 0.02	U	11400	- -	11500	- -	< 9.0	U	0.53	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.1	J+	0.1	J+	NM	- -
< 0.02	U	< 0.02	U	14500	- -	14300	- -	< 9.0	U	0.51	- -	< 0.2	U	< 0.2	U	0.13	J+	0.11	J+	0.2	J+	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	15300	- -	15700	- -	< 9.0	U	0.64	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.1	- -	0.1	J+	NM	- -
< 0.02	U	< 0.02	U	12500	- -	11900	- -	< 9.0	U	0.82	- -	0.2	J+	< 0.2	U	NM	- -	NM	- -	0.3	J+	0.3	J+	NM	- -
< 0.02	U	< 0.02	U	13500	- -	13800	- -	< 15	U	0.64	- -	< 0.2	U	< 0.2	U	0.12	J+	0.15	J+	0.1	J+	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	15000	- -	15300	- -	< 15	U	0.71	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.1	J+	0.2	J+	NM	- -
< 0.02	UJ	< 0.02	UJ	15300	- -	15500	- -	< 15	U	1.03	- -	< 0.2	UJ	< 0.2	UJ	NM	- -	NM	- -	< 0.1	UJ	0.4	J+	NM	- -
< 0.02	U	< 0.02	U	15100	- -	15400	- -	< 15	U	1.05	- -	< 0.2	U	< 0.2	U	0.16	J+	0.15	J+	0.1	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	15100	- -	15300	- -	16	- -	0.84	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	14700	- -	14600	- -	< 15	U	0.95	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	10800	- -	10600	- -	< 15	U	0.47	- -	0.2	J+	< 0.2	U	0.13	J+	0.1	J+	0.4	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	6980	- -	6930	- -	< 15	U	< 0.40	U	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	10200	- -	10000	- -	< 15	U	< 0.40	U	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	13800	- -	13600	- -	< 15	U	0.47	- -	< 0.2	U	< 0.2	U	0.12	J+	0.1	J+	0.1	J+	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	14100	- -	13900	- -	< 15	U	0.99	- -	< 0.2	U	< 0.2	U	0.12	- -	0.11	- -	0.2	J+	0.2	J+	< 0.0047	UJ
< 0.02	U	< 0.02	U	15800	- -	15500	- -	< 15	U	0.98	- -	< 0.2	U	< 0.2	U	0.22	J+	0.21	J+	0.3	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	6990	- -	6930	- -	< 15	U	< 0.40	UJ	< 0.2	U	< 0.2	U	0.08	J+	0.05	J+	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	15900	- -	15800	- -	< 15	U	0.65	- -	< 0.2	U	< 0.2	U	0.12	- -	0.08	- -	0.1	- -	0.2	- -	< 0.0047	U
< 0.02	U	< 0.02	U	14300	- -	14100	- -	< 15	U	0.79	- -	< 0.2	U	< 0.2	U	0.14	J+	0.14	J+	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	16000	- -	16100	- -	< 15	U	0.89	- -	< 0.2	U	< 0.2	U	0.11	- -	0.12	- -	0.1	- -	0.4	- -	< 0.0047	U

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	26.5	- -	589	- -	25	- -	0.26	J+	< 0.02	U	1670	- -	1630	- -	NM	- -	NM	- -	32.7	- -	NM	- -	NM	- -
< 0.40	U	21	- -	191	- -	< 20.0	U	0.09	J+	< 0.02	U	1300	- -	1260	- -	13.5	- -	5.7	- -	7.4	J+	3.7	- -	< 0.1	U
< 0.40	U	23	- -	96.1	- -	26.4	- -	0.04	J+	< 0.02	U	1430	- -	1390	- -	NM	- -	NM	- -	5.8	- -	3	- -	NM	- -
< 0.40	U	38.2	- -	500	- -	47.2	- -	0.21	J+	< 0.02	U	2580	- -	2520	- -	NM	- -	NM	- -	8.5	- -	3.2	- -	NM	- -
< 0.40	U	50.8	- -	199	- -	47.2	- -	0.04	J+	< 0.02	U	3490	- -	3330	- -	41.2	J-	16	J-	5.3	- -	2.2	- -	0.11	- -
< 0.40	U	51.8	- -	186	- -	39.9	- -	0.05	- -	< 0.02	U	3580	- -	3610	- -	NM	- -	NM	- -	3.3	- -	1.5	- -	NM	- -
< 0.40	U	53.8	- -	201	- -	46	- -	0.04	- -	< 0.02	U	3480	- -	3480	- -	NM	- -	NM	- -	3	- -	1.6	- -	NM	- -
< 0.40	U	44.5	- -	255	- -	73.4	- -	0.05	- -	< 0.02	U	3060	- -	3010	- -	44	- -	37.4	- -	6.1	J+	4.5	- -	< 0.1	U
< 0.40	U	53.4	- -	168	- -	88.5	- -	0.02	- -	< 0.02	U	3670	- -	3490	- -	NM	- -	NM	- -	3.9	- -	2.9	- -	NM	- -
< 0.40	U	53.7	- -	178	- -	87.8	- -	< 0.02	U	< 0.02	U	3700	- -	3630	- -	NM	- -	NM	- -	2	- -	1.5	- -	NM	- -
< 0.40	U	54.2	- -	148	- -	73.6	- -	< 0.02	U	< 0.02	U	3940	- -	3960	- -	30.5	- -	28.7	- -	2.3	- -	1.6	- -	< 0.1	U
< 0.40	U	55.5	- -	268	- -	72.8	- -	0.03	J+	< 0.02	U	3690	- -	3650	- -	NM	- -	NM	- -	3.4	- -	1.6	- -	NM	- -
< 0.40	U	46.7	- -	358	- -	68	- -	0.08	J+	< 0.02	U	3120	- -	3050	- -	NM	- -	NM	- -	10.3	- -	3.4	- -	NM	- -
< 0.40	U	20.8	- -	346	- -	36.9	- -	0.18	- -	< 0.02	U	1330	- -	1290	- -	20.2	- -	5.9	- -	13.1	- -	4	- -	< 0.1	U
< 0.40	U	21.9	- -	74	- -	< 20.0	U	0.04	J+	< 0.02	U	1330	- -	1320	- -	NM	- -	NM	- -	2.7	- -	2.3	- -	NM	- -
< 0.40	U	38.9	- -	138	- -	44	- -	0.04	J+	< 0.02	U	2510	- -	2510	- -	NM	- -	NM	- -	3.7	- -	1.8	- -	NM	- -
< 0.20	U	49.6	- -	172	- -	46.1	- -	0.06	J+	< 0.02	U	3280	- -	3240	- -	38.3	- -	11.8	J+	3.4	- -	2.1	- -	< 0.1	U
< 0.20	U	52.7	- -	221	- -	45.4	- -	0.04	- -	< 0.02	U	3500	- -	3600	- -	NM	- -	NM	- -	3.9	- -	2.2	J	NM	- -
< 0.20	U	42.4	- -	281	- -	85	- -	0.06	J+	< 0.02	U	2690	- -	2560	- -	NM	- -	NM	- -	8.2	- -	3.8	- -	NM	- -
< 0.20	U	46.2	- -	137	- -	77.9	- -	0.02	J+	< 0.02	U	3070	- -	3120	- -	27.1	- -	25.9	- -	2	- -	1.4	- -	< 0.1	U
< 0.20	U	51.5	- -	145	- -	76.7	- -	0.02	J+	< 0.02	U	3430	- -	3480	- -	NM	- -	NM	- -	2.6	- -	1.5	- -	NM	- -
< 0.20	U	52.3	- -	165	- -	55.9	- -	< 0.02	UJ	< 0.02	UJ	3440	- -	3460	- -	NM	- -	NM	- -	2.4	- -	1.4	- -	NM	- -
< 0.2	U	52.4	- -	167	- -	45.8	- -	< 0.02	U	< 0.02	U	3540	- -	3640	- -	25.3	- -	21.8	- -	2.1	- -	2.5	- -	< 0.1	U
< 0.2	U	52.1	- -	266	- -	82.3	- -	0.03	- -	< 0.02	U	3490	- -	3590	- -	42.1	- -	37.2	- -	3.6	- -	2.2	- -	NM	- -
< 0.20	U	50.3	- -	440	- -	98.7	- -	0.07	J+	< 0.02	U	3320	- -	3280	- -	59.5	- -	50.6	- -	10.7	- -	2.9	- -	NM	- -
< 0.20	U	36.9	- -	193	- -	38.1	- -	0.05	J+	< 0.02	U	2400	J	2360	J	19.2	- -	14.6	- -	7.7	- -	3.6	- -	< 0.1	U
< 0.20	U	23.4	- -	92.3	- -	23.7	- -	0.05	J+	< 0.02	U	1460	- -	1410	- -	12.3	- -	9.5	- -	4.8	- -	2.8	- -	NM	- -
< 0.20	U	34.6	- -	95.2	- -	53.5	- -	0.05	J+	< 0.02	U	2190	- -	2140	- -	24.9	- -	22.1	- -	3.4	- -	2	- -	NM	- -
< 0.20	U	47.1	- -	183	- -	62.5	- -	0.07	J+	< 0.02	U	3100	- -	3110	- -	32.7	- -	14.6	- -	3.3	- -	1.8	- -	< 0.1	U
< 0.20	U	48	- -	202	- -	91.1	- -	0.03	J+	< 0.02	U	3130	- -	3080	- -	32.7	- -	28.5	- -	9.8	- -	1.7	- -	< 0.1	U
< 0.20	U	54.6	- -	239	- -	98.2	- -	0.02	J+	< 0.02	U	3700	- -	3620	- -	39.8	J-	36.6	J-	3.4	- -	1.9	- -	< 0.1	U
< 0.20	U	23.6	- -	173	- -	28.4	- -	0.08	J+	< 0.02	U	1490	- -	1450	- -	15.2	- -	7.4	J-	8.6	- -	2.8	- -	< 0.1	U
< 0.2	U	54.4	- -	217	- -	72.2	- -	0.1	J+	0.02	J+	3540	- -	3510	- -	35.7	- -	12.2	- -	3	- -	1.5	- -	< 0.1	U
< 0.2	U	49.3	- -	137	- -	67	- -	0.03	J+	< 0.02	U	3340	- -	3320	- -	22.1	- -	19.1	- -	2.3	- -	1.6	- -	< 0.1	U
< 0.2	U	55.6	- -	149	- -	61.2	- -	0.02	- -	< 0.02	U	3780	- -	3800	- -	24.9	- -	23.9	- -	2.1	- -	1.3	- -	< 0.1	U

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Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	- -	NM	- -	NM	- -	NM	- -	0.057	- -	NM	- -	NM	- -	38.7	J	25.5	J	985	- -	845	- -	< 1.0	U	< 1.0	U
0.52	- -	0.52	- -	0.3	J+	< 0.2	U	< 0.050	U	< 0.40	U	< 0.40	U	< 20.0	U	< 20.0	U	649	- -	625	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	20	J+	< 20.0	U	592	- -	611	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	33.8	J-	< 20.0	UJ	907	- -	787	- -	< 1.0	UJ	< 1.0	UJ
0.9	- -	0.9	- -	0.2	J+	0.4	J+	< 0.050	U	0.5	- -	0.5	- -	< 40.0	UJ	< 40.0	UJ	947	- -	936	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 20.0	UJ	< 20.0	UJ	935	- -	1000	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 20.0	UJ	< 20.0	UJ	950	- -	934	- -	< 1.0	U	< 1.0	U
0.82	J+	0.77	J+	< 0.2	U	< 0.2	U	< 0.050	U	0.55	- -	0.55	- -	< 20.0	UJ	< 20.0	UJ	1010	- -	986	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 20.0	UJ	< 20.0	UJ	975	- -	930	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	0.061	- -	NM	- -	NM	- -	< 20.0	UJ	< 20.0	UJ	990	- -	954	- -	< 1.0	U	< 1.0	U
0.95	- -	0.95	- -	0.3	J+	0.2	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 20.0	U	< 20.0	U	1040	- -	1010	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 20.0	U	< 20.0	U	1030	- -	988	- -	< 1.0	UJ	< 1.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	UJ	< 40.0	UJ	1200	- -	1110	- -	< 1.0	U	< 1.0	U
0.55	- -	0.55	- -	< 0.20	U	0.41	J+	< 0.050	U	0.6	- -	0.6	- -	< 40.0	U	< 40.0	U	795	- -	647	J+	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	UJ	< 40.0	UJ	554	- -	541	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	UJ	< 40.0	UJ	775	J+	809	J+	< 1.0	U	< 1.0	U
1.04	- -	1.06	- -	< 0.20	U	< 0.20	U	< 0.050	U	0.49	- -	0.49	- -	< 40.0	U	< 40.0	U	890	- -	916	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	U	< 40.0	U	1060	- -	1010	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	UJ	< 40.0	UJ	971	- -	866	- -	< 1.0	U	< 1.0	U
0.88	- -	0.9	- -	< 0.20	U	< 0.20	U	< 0.050	U	0.44	- -	0.44	- -	< 80.0	UJ	< 80.0	UJ	896	- -	908	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	UJ	< 40.0	UJ	989	- -	999	- -	< 1.0	UJ	< 1.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40	UJ	< 40	UJ	964	- -	943	- -	< 1	UJ	< 1	UJ
0.88	J+	0.87	J+	< 0.2	U	0.2	J+	< 0.05	U	< 0.40	U	< 0.4	U	< 40	UJ	< 40	UJ	890	- -	906	- -	< 1	UJ	< 1	UJ
NM	- -	NM	- -	NM	- -	NM	- -	< 0.05	U	NM	- -	NM	- -	< 40	UJ	< 40	UJ	1060	- -	1020	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	0.06	- -	NM	- -	NM	- -	< 40.0	UJ	< 40.0	UJ	985	- -	973	- -	NM	- -	NM	- -
0.73	- -	0.73	- -	< 0.2	U	< 0.2	U	< 0.050	U	0.78	J+	0.78	J+	< 40.0	UJ	< 40.0	UJ	949	- -	881	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	U	< 40.0	U	572	- -	521	J-	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	< 40.0	U	< 40.0	U	694	- -	715	- -	NM	- -	NM	- -
0.86	- -	0.92	- -	0.2	J+	0.2	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	866	- -	903	- -	< 1.0	U	< 1.0	U
0.78	- -	0.81	- -	< 0.2	U	< 0.2	U	< 0.050	U	0.5	J-	0.48	J-	< 40.0	U	< 40.0	U	958	- -	959	- -	< 1.0	U	< 1.0	U
0.87	- -	0.91	- -	< 0.2	U	< 0.2	U	< 0.050	U	0.58	J+	0.58	J+	< 40.0	U	< 40.0	U	1030	- -	1060	- -	< 1.0	U	< 1.0	U
0.59	- -	0.57	- -	< 0.2	U	< 0.2	U	< 0.050	U	0.49	J+	0.49	J+	< 40.0	U	< 40.0	U	670	- -	666	- -	< 1.0	U	< 1.0	U
0.95	J+	0.99	J+	< 0.2	U	< 0.2	U	< 0.05	U	0.74	- -	0.74	J+	< 40	U	< 42.6	U	976	- -	969	- -	< 1	U	< 1	U
0.88	- -	0.87	- -	0.3	J+	0.3	J+	< 0.05	U	0.7	J+	0.69	J+	< 40	U	< 40	U	882	- -	887	- -	< 1	UJ	< 1	UJ
0.95	- -	0.92	- -	0.2	- -	0.3	- -	< 0.05	U	0.69	- -	0.67	- -	< 40	U	< 40	U	988	- -	982	- -	< 1	U	< 1	U

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	- -	NM	- -	1590	- -	1620	- -	61.5	- -	13.5	- -	6.14	- -	NM	- -	NM	- -	NM	- -	NM	- -	2	J+	0.6	J+
< 0.020	U	< 0.020	U	1550	- -	1530	- -	35.5	- -	< 5.0	U	3.08	- -	< 0.02	U	< 0.02	U	0.4	- -	0.2	- -	0.7	J+	< 0.5	U
NM	- -	NM	- -	1520	- -	1480	- -	71	- -	< 5.0	U	3.06	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	< 0.5	U
NM	- -	NM	- -	2190	- -	2160	- -	53.5	- -	10.5	- -	5.3	- -	NM	- -	NM	- -	NM	- -	NM	- -	2.1	J+	< 0.5	U
< 0.04	U	< 0.04	U	2470	- -	2410	- -	100	- -	< 5.0	U	7.78	- -	< 0.02	U	< 0.02	U	0.3	- -	0.2	- -	< 0.5	U	0.6	J+
NM	- -	NM	- -	2500	- -	2530	- -	69	- -	< 5.0	U	9.3	- -	NM	- -	NM	- -	NM	- -	NM	- -	0.5	J+	0.5	J+
NM	- -	NM	- -	2430	- -	2410	- -	142	- -	< 5.0	U	9.5	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	0.7	J+
< 0.02	U	< 0.02	U	2490	- -	2460	- -	53	- -	< 5.0	U	8.68	- -	< 0.02	U	< 0.02	U	0.3	- -	< 0.2	U	0.7	J+	0.7	J+
NM	- -	NM	- -	2690	- -	2580	- -	73	- -	< 5.0	U	14.6	- -	NM	- -	NM	- -	NM	- -	NM	- -	1.03	J+	1.5	J+
NM	- -	NM	- -	2670	- -	2730	- -	51	- -	< 5.0	U	12.9	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	0.8	J+
< 0.02	U	< 0.02	U	2830	- -	2850	- -	69	- -	< 5.0	U	12.3	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1	- -	0.9	- -
NM	- -	NM	- -	2850	- -	2770	- -	90	- -	< 5.0	U	14	- -	NM	- -	NM	- -	NM	- -	NM	- -	1.3	J+	1	J+
NM	- -	NM	- -	2460	- -	2500	- -	76	- -	< 5.0	U	13.8	- -	NM	- -	NM	- -	NM	- -	NM	- -	1.5	J+	1.1	J+
< 0.02	U	< 0.02	U	1570	- -	1550	- -	40	- -	7	- -	3.55	- -	< 0.020	U	< 0.020	U	0.4	- -	0.2	- -	1	J+	0.9	J+
NM	- -	NM	- -	1480	- -	1520	- -	37	- -	< 5.0	U	3.37	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	0.6	J+
NM	- -	NM	- -	2150	- -	2160	- -	59	- -	< 5.0	U	6.05	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2360	- -	2350	- -	64	- -	< 5.0	U	7.82	- -	< 0.020	U	< 0.020	U	0.3	- -	0.2	- -	< 0.5	U	< 0.5	U
NM	- -	NM	- -	2460	- -	2510	- -	79	- -	< 5.0	U	8.92	- -	NM	- -	NM	- -	NM	- -	NM	- -	0.6	J	< 0.5	U
NM	- -	NM	- -	2350	- -	2290	- -	73	- -	< 5.0	U	8.45	- -	NM	- -	NM	- -	NM	- -	NM	- -	1.1	J+	0.8	J+
< 0.02	U	< 0.02	U	2490	- -	2600	- -	69	- -	< 5.0	U	9.23	J	< 0.02	U	< 0.02	U	0.2	- -	0.2	- -	< 0.5	U	0.6	J+
NM	- -	NM	- -	2680	- -	2720	- -	98	- -	< 5.0	U	11.4	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	0.6	J+
NM	- -	NM	- -	2600	- -	2610	- -	78	- -	< 5.0	U	11.3	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	UJ	0.7	- -
< 0.02	U	< 0.02	U	2630	- -	2660	- -	63	- -	< 5	U	11.4	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	- -	NM	- -	2670	- -	2610	- -	74	- -	< 5	U	14	- -	NM	- -	NM	- -	NM	- -	NM	- -	1.4	J+	1.4	J+
NM	- -	NM	- -	2250	- -	2310	- -	68	- -	< 5.0	U	14.7	- -	NM	- -	NM	- -	NM	- -	NM	- -	1.5	J+	1.3	J+
< 0.02	U	< 0.02	U	2080	- -	2050	- -	56	- -	< 5.0	U	9.14	- -	< 0.02	U	< 0.02	U	0.4	- -	0.2	- -	1.4	J+	0.7	J+
NM	- -	NM	- -	1440	- -	1370	- -	40	- -	< 5.0	U	3.04	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	0.5	J+
NM	- -	NM	- -	1940	- -	1920	- -	44	- -	< 5.0	U	4.77	- -	NM	- -	NM	- -	NM	- -	NM	- -	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2400	- -	2440	- -	79	- -	< 5.0	U	7.02	- -	< 0.02	U	< 0.02	U	0.3	- -	0.2	- -	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2520	- -	2580	- -	83	J+	< 5.0	U	9.15	- -	< 0.02	U	< 0.02	U	0.2	- -	< 0.2	U	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2640	- -	2670	- -	74	- -	< 5.0	U	14.7	- -	< 0.02	U	< 0.02	U	0.2	- -	< 0.2	U	1.2	J+	1.2	J+
< 0.02	U	< 0.02	U	1720	- -	1750	- -	40.5	- -	< 5.0	U	3.36	- -	< 0.02	U	< 0.02	U	0.3	- -	0.2	- -	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2610	- -	2610	- -	56	- -	< 5	U	8.32	- -	< 0.02	U	< 0.02	U	0.3	- -	0.3	- -	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2570	- -	2610	- -	56	- -	< 5	U	9.64	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.6	J+	0.8	J+
< 0.02	U	< 0.02	U	2810	- -	2900	- -	58	- -	< 5	U	11.4	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.8	- -

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-SR-6	4	2012	127	--	NM	--	0.066	--	11.1	--	7.8	--	2.7	--	30	--	26.8	J+	NM	--	NM	--
YP-SR-6	5	2012	216	--	0	--	0.047	--	9.9	--	7.6	--	5.2	--	50	--	21.5	--	173	--	16.4	--
YP-SR-6	6	2012	143	--	0	--	0.060	--	10.1	--	7.0	--	7.5	--	4.2	--	23.7	--	NM	--	NM	--
YP-SR-6	7	2012	38	--	NM	--	NM	--	8.1	--	NM	--	17.8	--	3.9	--	37.1	J+	NM	--	NM	--
YP-SR-6	8	2012	15	--	0	--	0.106	--	RM	R	7.7	--	12.5	--	0.5	--	42.9	--	22.8	--	6.5	J+
YP-SR-6	9	2012	12	--	NM	--	0.111	--	9.2	--	7.4	--	9.1	--	0.2	--	46	--	NM	--	NM	--
YP-SR-6	10	2012	13	--	NM	--	0.122	--	9.6	--	7.3	--	6.6	--	0.8	--	48.3	--	NM	--	NM	--
YP-SR-6	11	2012	18	--	0	--	0.110	--	10.8	--	7.3	--	2.1	--	4.6	--	39.7	--	51.7	--	12.1	--
YP-SR-6	12	2012	21	--	NM	--	0.121	--	12.3	--	7.6	--	0.2	--	3.9	--	42.8	--	NM	--	NM	--
YP-SR-6	1	2013	10	--	NM	--	0.124	--	10.7	--	7.5	--	1.5	--	2.6	--	47.6	--	NM	--	NM	--
YP-SR-6	2	2013	9.0	--	0	--	0.131	--	11.1	--	7.7	--	0.6	--	2.1	--	47.9	--	18.9	--	3.3	--
YP-SR-6	3	2013	9.6	--	NM	--	0.144	--	11.5	--	7.4	--	0.5	--	2.2	--	47	--	NM	--	NM	--
YP-SR-6	4	2013	36	--	NM	--	0.116	--	10.9	--	7.2	--	2.7	--	4.4	--	36.3	--	NM	--	NM	--
YP-SR-6	5	2013	209	--	0	--	0.074	--	9.6	--	6.4	--	4.4	--	4.0	--	21.9	--	268	--	19.5	--
YP-SR-6	6	2013	112	--	NM	--	0.080	--	8.7	--	6.4	--	11.7	--	0.4	--	23	--	NM	--	NM	--
YP-SR-6	7	2013	35	--	NM	--	0.096	--	8.9	--	7.0	--	8.0	--	2.1	--	38.9	--	NM	--	NM	--
YP-SR-6	8	2013	16	--	0	--	0.105	--	9.2	--	7.7	--	8.6	--	2.3	--	46.1	--	21.9	--	5.2	--
YP-SR-6	9	2013	13	--	NM	--	0.120	--	9.7	--	7.2	--	6.5	--	5.9	--	48.1	--	NM	--	NM	--
YP-SR-6	10	2013	36	--	NM	--	0.096	--	11.0	--	7.1	--	1.5	--	3.0	--	40.3	--	NM	--	NM	--
YP-SR-6	11	2013	33	--	0	--	0.115	--	11.4	--	7.4	--	0.6	--	4.6	--	63	J+	64.5	--	4.8	--
YP-SR-6	12	2013	13	--	NM	--	0.113	--	12.1	--	6.6	--	0.1	--	3.1	--	50	--	NM	--	NM	--
YP-SR-6	1	2014	14	--	NM	--	0.108	--	11.4	--	7.3	--	0.6	--	4.0	--	53	--	NM	--	NM	--
YP-SR-6	2	2014	12	--	0	--	0.110	--	11.0	--	7.1	--	0.3	--	1.5	--	57	J	10.6	J+	3.3	J+
YP-SR-6	3	2014	15	--	NM	--	0.115	--	11.7	--	7.8	--	0.0	--	2.5	--	70	J+	118	--	< 10	U
YP-SR-6	4	2014	39	--	NM	--	0.091	--	11.2	--	7.8	--	2.2	--	6.8	--	36	--	202	--	41	--
YP-SR-6	5	2014	87	--	0	--	0.078	--	10.1	--	7.3	--	6.3	--	5.8	--	31	--	120	--	14.6	--
YP-SR-6	6	2014	130	--	NM	--	0.052	--	10.4	--	7.2	--	4.8	--	5.6	--	24	--	94.4	--	16	--
YP-SR-6	7	2014	51	--	NM	--	0.072	--	9.3	--	7.0	--	9.8	--	2.9	--	33	--	35.5	--	10.8	--
YP-SR-6	8	2014	21	--	0	--	0.097	--	9.0	--	7.4	--	8.6	--	1.2	--	46	--	18.9	--	6.5	--
YP-SR-6	11	2014	17	--	0	--	0.096	--	11.2	--	7.7	--	3.8	--	1.7	--	43	--	47.6	--	5.9	--
YP-SR-6	2	2015	12.3	--	0	--	0.113	--	11.6	--	8.5	--	0.0	--	8.1	--	48	--	31.4	--	5.3	--
YP-SR-6	5	2015	111	--	0	--	0.053	--	10.4	--	7.8	--	3.9	--	6.5	--	24	--	111	--	16.3	--
YP-SR-6	8	2015	14	--	0	--	0.110	--	9.5	--	7.5	--	7.9	--	0.9	--	49	--	20	--	4.4	--
YP-SR-6	11	2015	14	--	0	--	0.112	--	11.4	--	7.9	--	0.8	--	2.9	--	46	--	32.5	--	3.7	--
YP-SR-6	2	2016	8.0	--	0	--	0.117	--	11.7	--	7.5	--	0.6	--	0	--	47	--	10.9	--	2.6	--

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

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Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	35.7	--	34.1	--	NM	--	45.6	--	39.5	--	NM	--	NM	--	NM	--	NM	--	26.8	J+	NM	--	NM	--
< 0.050	U	13.1	--	12.1	--	0.25	--	19.8	--	16.8	--	8.3	J+	6	J+	0.02	--	< 0.02	U	21.5	--	< 50.0	U	< 50.0	U
< 0.050	U	9.15	--	8.78	--	NM	--	16	--	14.7	--	NM	--	NM	--	NM	--	NM	--	23.7	--	NM	--	NM	--
< 0.050	U	10.1	--	10	--	NM	--	28.7	--	27.1	--	NM	--	NM	--	NM	--	NM	--	37.1	J+	NM	--	NM	--
< 0.050	U	13.2	--	13.2	--	1.13	--	35.7	--	34.6	--	11.5	--	11.2	--	< 0.02	U	< 0.02	U	42.9	--	< 10.0	U	< 10.0	U
< 0.050	U	15.6	--	15.2	--	NM	--	41.1	--	38.2	--	NM	--	NM	--	NM	--	NM	--	46	--	NM	--	NM	--
< 0.050	U	16.2	--	15.7	--	NM	--	37.6	--	36.1	--	NM	--	NM	--	NM	--	NM	--	48.3	--	NM	--	NM	--
< 0.050	U	18.3	--	16.9	--	1.7	--	28.1	--	26.3	--	12.3	--	11	--	< 0.02	U	< 0.02	U	39.7	--	< 50.0	U	< 50.0	U
< 0.050	U	31.2	--	31	--	NM	--	40	--	38.3	--	NM	--	NM	--	NM	--	NM	--	42.8	--	NM	--	NM	--
< 0.050	U	19.8	--	19.7	--	NM	--	34	--	31.9	--	NM	--	NM	--	NM	--	NM	--	47.6	--	NM	--	NM	--
< 0.050	U	19.6	--	19.6	--	0.42	--	35.2	--	32.9	--	12.6	J+	12.2	J+	< 0.02	U	< 0.02	U	47.9	--	< 50.0	U	< 50.0	U
< 0.050	U	22.8	--	22.7	--	NM	--	35.3	--	33.3	--	NM	--	NM	--	NM	--	NM	--	47	--	NM	--	NM	--
< 0.050	U	47.3	--	46.9	--	NM	--	45.5	--	39.9	--	NM	--	NM	--	NM	--	NM	--	36.3	--	NM	--	NM	--
< 0.050	U	13	--	11.9	--	0.37	--	20.3	--	17.3	--	9.46	J+	6.13	J+	0.03	--	< 0.02	U	21.9	--	< 20.0	U	< 20.0	U
0.05	--	6.38	--	6.37	--	NM	--	13	--	12.6	--	NM	--	NM	--	NM	--	NM	--	23	--	NM	--	NM	--
< 0.050	U	12.2	--	11	--	NM	--	29.6	--	28.8	--	NM	--	NM	--	NM	--	NM	--	38.9	--	NM	--	NM	--
< 0.050	U	16.6	--	16.5	--	0.79	--	37.4	--	36	--	12	J+	11.9	J+	< 0.02	U	< 0.02	U	46.1	--	< 40.0	UJ	< 40.0	UJ
< 0.050	U	17.8	--	16.4	--	NM	--	39.6	--	36.5	--	NM	--	NM	--	NM	--	NM	--	48.1	--	NM	--	NM	--
< 0.050	U	18.1	--	17.7	--	NM	--	25.7	--	24.1	--	NM	--	NM	--	NM	--	NM	--	40.3	--	NM	--	NM	--
< 0.050	U	17.2	--	15.9	--	1.3	--	34.1	--	30.2	--	11.4	--	9.92	--	< 0.02	U	< 0.02	U	51	J+	< 20.0	U	< 20.0	U
< 0.050	U	27.4	--	28.7	--	NM	--	31.8	--	32.5	--	NM	--	NM	--	NM	--	NM	--	46	--	NM	--	NM	--
< 0.050	U	20.8	--	20.6	--	NM	--	35	--	33.3	--	NM	--	NM	--	NM	--	NM	--	53	--	NM	--	NM	--
< 0.05	U	20.5	--	21	J	0.57	--	31.8	--	31.5	--	12.3	J+	12.4	J+	< 0.02	U	< 0.02	U	54	J	< 20	U	< 20	U
< 0.05	U	38.5	--	38	--	NM	--	42.4	--	37.5	--	NM	--	NM	--	NM	--	NM	--	57	J+	NM	--	NM	--
< 0.050	U	43.4	--	43.3	--	NM	--	44.5	--	40.8	--	NM	--	NM	--	NM	--	NM	--	36	--	NM	--	NM	--
< 0.050	U	40.5	--	40.1	--	0.718	--	43.3	--	41.4	--	10.9	J+	9.16	J+	< 0.02	U	< 0.02	U	31	--	< 20.0	U	< 20.0	U
< 0.050	U	7.63	--	7.57	--	NM	--	16.6	--	15.5	--	NM	--	NM	--	NM	--	NM	--	24	--	NM	--	NM	--
< 0.050	U	9.04	--	8.94	--	NM	--	23.6	--	22.9	--	NM	--	NM	--	NM	--	NM	--	33	--	NM	--	NM	--
< 0.050	U	12.9	--	12.4	--	0.65	--	35.4	--	33.6	--	11.4	--	10.9	--	< 0.02	U	< 0.02	U	46	--	< 20.0	U	< 20.0	U
< 0.050	U	19	--	18.4	--	96	--	31.8	--	30	--	11.2	--	10.5	--	< 0.02	U	< 0.02	U	43	--	< 20.0	U	< 20.0	U
< 0.050	U	33.3	--	34.1	--	0.85	--	40.1	--	37.4	--	12.9	--	12.6	--	< 0.02	U	< 0.02	U	48	--	< 20.0	UJ	< 20.0	UJ
< 0.050	U	8.26	--	8.04	--	0.57	--	14.8	--	12.7	--	7.55	--	6.05	--	< 0.02	U	< 0.02	U	24	--	< 20.0	U	< 20.0	U
< 0.05	U	14.4	--	14.1	--	0.25	--	38.9	--	37.4	--	13.1	--	12.5	--	< 0.02	U	< 0.02	U	49	--	< 20	U	< 21.3	U
< 0.05	U	15.8	--	15.1	--	0.56	--	31	--	28.1	--	11.7	--	10.9	--	< 0.02	U	< 0.02	U	46	--	< 20	U	< 20	U
< 0.05	U	18.4	--	18.1	--	0.31	--	30.4	--	29	--	12.2	--	12	--	< 0.02	U	< 0.02	U	47	--	< 20	U	< 20	U

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Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	8030	- -	7830	- -	< 9.0	U	< 0.40	U	0.5	J+	< 0.2	U	NM	- -	NM	- -	0.5	J+	0.4	J+	NM	- -
< 0.02	U	< 0.02	U	5910	- -	5660	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.1	J+	0.04	J+	0.3	- -	0.2	J	< 0.0047	U
< 0.02	U	< 0.02	U	6420	- -	6360	- -	< 9.0	U	< 0.40	U	0.2	J+	< 0.2	U	NM	- -	NM	- -	0.2	- -	0.2	- -	NM	- -
< 0.02	U	< 0.02	U	9760	- -	9920	- -	< 9.0	U	< 0.40	U	0.2	J+	0.2	J+	NM	- -	NM	- -	0.2	- -	0.3	- -	NM	- -
< 0.02	U	< 0.02	U	13000	- -	13000	- -	< 9.0	U	0.6	- -	< 0.2	U	0.2	J+	0.12	J+	0.11	J+	0.1	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	12600	- -	13100	- -	< 9.0	U	0.78	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	< 0.1	U	0.3	- -	NM	- -
< 0.02	U	< 0.02	U	14300	- -	14200	- -	< 9.0	U	0.93	- -	0.3	- -	< 0.2	U	NM	- -	NM	- -	0.1	- -	0.1	- -	NM	- -
< 0.02	U	< 0.02	U	11700	- -	11900	- -	< 9.0	U	0.97	- -	0.4	- -	< 0.2	U	0.1	J+	0.11	J+	0.2	- -	0.2	- -	< 0.0047	U
< 0.02	U	< 0.02	U	13400	- -	13200	- -	< 9.0	U	0.93	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.2	- -	0.2	J+	NM	- -
< 0.02	U	< 0.02	U	13400	- -	13800	- -	< 9.0	U	0.83	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.1	J+	0.2	J+	NM	- -
< 0.02	U	< 0.02	U	13700	- -	14500	- -	< 9.0	U	0.87	- -	< 0.2	U	< 0.2	U	0.19	J+	0.18	J+	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	14400	- -	14200	- -	< 9.0	U	0.74	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.2	J+	0.2	J+	NM	- -
< 0.02	U	< 0.02	U	11800	- -	11400	- -	< 9.0	U	0.73	- -	0.7	J+	0.2	J+	NM	- -	NM	- -	0.5	J+	0.5	J+	NM	- -
< 0.02	U	< 0.02	U	5700	- -	5760	- -	< 9.0	U	< 0.40	U	0.5	J+	< 0.2	U	0.18	J+	0.04	J+	0.4	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	6060	- -	5850	- -	< 9.0	U	< 0.40	U	0.3	J+	< 0.2	U	NM	- -	NM	- -	0.2	J+	0.2	J+	NM	- -
< 0.02	U	< 0.02	U	10500	- -	10300	- -	< 9.0	U	0.43	- -	< 0.2	U	0.2	J+	NM	- -	NM	- -	0.1	J+	0.2	J+	NM	- -
< 0.02	U	< 0.02	U	12800	- -	12600	- -	< 9.0	U	0.54	- -	< 0.2	U	< 0.2	U	0.12	J+	0.1	J+	0.1	J+	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	14000	- -	14200	- -	< 9.0	U	0.66	- -	0.3	- -	< 0.2	U	NM	- -	NM	- -	0.1	- -	0.1	J+	NM	- -
< 0.02	U	< 0.02	U	10900	- -	10900	- -	< 9.0	U	0.76	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.2	J+	0.2	J+	NM	- -
< 0.02	U	< 0.02	U	11500	- -	11500	- -	< 15	U	0.83	- -	0.2	J+	< 0.2	U	0.14	J+	0.11	J+	0.3	J+	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	13400	- -	14100	- -	< 15	U	0.71	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	< 0.1	U	0.2	J+	NM	- -
< 0.02	UJ	< 0.02	UJ	13200	- -	13100	- -	< 15	U	1.03	- -	< 0.2	UJ	< 0.2	UJ	NM	- -	NM	- -	< 0.1	UJ	0.3	J+	NM	- -
< 0.02	U	< 0.02	U	14200	- -	14500	- -	< 15	U	1.07	- -	< 0.2	U	< 0.2	U	0.14	J+	0.14	J+	0.1	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	14600	- -	14500	- -	< 15	U	0.98	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	12000	- -	11500	- -	< 15	U	0.92	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	9520	- -	9370	- -	< 15	U	0.58	- -	< 0.2	U	< 0.2	U	0.12	J+	0.09	J+	0.3	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	6440	- -	6510	- -	< 15	U	< 0.40	U	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	9200	- -	9070	- -	< 15	U	< 0.40	U	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	12400	- -	12400	- -	< 15	U	0.48	- -	0.4	J+	< 0.2	U	0.09	J+	0.09	J+	< 0.1	U	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	12400	- -	12400	- -	< 15	U	0.86	- -	< 0.2	U	< 0.2	U	0.11	- -	0.09	- -	0.2	J+	0.2	J+	< 0.0047	UJ
< 0.02	U	< 0.02	U	14200	- -	13900	- -	< 15	U	1.07	- -	< 0.2	U	< 0.2	U	0.14	J+	0.14	J+	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	6400	- -	6150	- -	< 15	U	< 0.40	U	0.4	J+	< 0.2	U	0.08	J+	0.04	J+	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	14100	- -	14300	- -	< 15	U	0.69	- -	< 0.2	U	< 0.2	U	0.1	- -	0.09	- -	0.1	- -	0.1	- -	< 0.0047	U
< 0.02	U	< 0.02	U	12500	- -	12400	- -	< 15	U	0.77	- -	< 0.2	U	< 0.2	U	0.14	J+	0.12	J+	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	14300	- -	14400	- -	< 15	U	0.91	- -	< 0.2	U	< 0.2	U	0.1	- -	0.11	- -	0.2	- -	0.5	- -	< 0.0047	U

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	27.5	--	354	--	< 20.0	U	0.25	J+	< 0.02	U	1810	--	1700	--	NM	--	NM	--	24.6	--	NM	--	NM	--
< 0.40	U	19.6	--	209	--	< 20.0	U	0.11	J+	< 0.02	U	1180	--	1120	--	12.6	--	< 5.0	U	3.4	J+	2.1	--	< 0.1	U
< 0.40	U	21.3	--	121	--	< 20.0	U	0.07	J+	< 0.02	U	1280	--	1260	--	NM	--	NM	--	7.3	--	2.9	--	NM	--
< 0.40	U	33.4	--	327	--	34.2	--	0.13	J+	< 0.02	U	2180	--	2150	--	NM	--	NM	--	6.1	--	2.5	--	NM	--
< 0.40	U	44.9	--	96	--	36.2	--	0.05	J+	< 0.02	U	3040	--	3030	--	16.4	J-	11.4	J-	4.1	--	2.3	--	< 0.1	U
< 0.40	U	43.7	--	65.4	--	37.5	--	< 0.02	U	< 0.02	U	3010	--	3160	--	NM	--	NM	--	1.9	--	1.5	--	NM	--
< 0.40	U	48.4	--	68.3	--	33	--	0.02	--	< 0.02	U	3090	--	3090	--	NM	--	NM	--	2.6	--	1.5	--	NM	--
< 0.40	U	40.8	--	124	--	41.8	--	0.03	--	< 0.02	U	2810	--	2830	--	19.5	--	15.4	--	3.6	J+	2.7	--	< 0.1	U
< 0.40	U	46	--	102	--	29.6	--	0.03	--	< 0.02	U	3080	--	2950	--	NM	--	NM	--	4.3	--	4.3	--	NM	--
< 0.40	U	46.4	--	79	--	26.1	--	< 0.02	U	< 0.02	U	3160	--	3260	--	NM	--	NM	--	2	--	1.6	--	NM	--
< 0.40	U	48.2	--	81.8	--	29.1	--	0.02	J+	< 0.02	U	3420	--	3570	--	14.2	--	11.8	--	2.4	--	1.9	--	< 0.1	U
< 0.40	U	48.1	--	115	--	26.4	--	0.03	J+	< 0.02	U	3250	--	3220	--	NM	--	NM	--	3.7	--	2	--	NM	--
< 0.40	U	40.1	--	307	--	29.3	--	0.09	J+	< 0.02	U	2600	--	2480	--	NM	--	NM	--	11	--	4.1	--	NM	--
< 0.40	U	19.2	--	382	--	< 20.0	U	0.21	--	< 0.02	U	1210	--	1160	--	21	--	3.5	--	16.8	J	3.4	--	< 0.1	U
< 0.40	U	20	--	114	--	< 20.0	U	0.06	J+	< 0.02	U	1170	--	1140	--	NM	--	NM	--	3.7	--	2.2	--	NM	--
< 0.40	U	35.5	--	57.1	--	26.2	--	0.03	J+	< 0.02	U	2240	--	2190	--	NM	--	NM	--	3.5	--	1.8	--	NM	--
< 0.20	U	43.5	--	79.6	--	22.9	--	0.06	J+	< 0.02	U	2840	--	2790	--	13.9	--	9.4	J+	3.2	--	1.6	--	< 0.1	U
< 0.20	U	48.2	--	118	--	31.6	--	0.09	--	< 0.02	U	3210	--	3210	--	NM	--	NM	--	4.9	--	2.3	--	NM	--
< 0.20	U	36.8	--	139	--	39.8	--	0.04	J+	< 0.02	U	2340	--	2320	--	NM	--	NM	--	4.9	--	3.3	--	NM	--
< 0.20	U	39.3	--	167	--	31.8	--	0.07	J+	< 0.02	U	2580	--	2570	--	18.3	--	9.9	--	4.8	--	1.6	--	< 0.1	U
< 0.20	U	45.8	--	48.6	--	< 20.0	U	0.02	J+	0.03	J+	3010	--	3150	--	NM	--	NM	--	2.6	--	1.8	--	NM	--
< 0.20	U	45	--	99.1	--	25.2	--	0.04	J+	< 0.02	UJ	2930	--	2940	--	NM	--	NM	--	2.7	--	1.9	--	NM	--
< 0.2	U	48.7	--	50.9	--	< 20	U	< 0.02	U	< 0.02	U	3250	--	3330	--	11.8	--	10.1	--	2.4	--	1.6	--	< 0.1	U
< 0.2	U	50.1	--	203	--	27.6	--	0.07	--	< 0.02	U	3320	--	3270	--	21.1	--	13.1	--	3.2	--	2.1	--	NM	--
< 0.20	U	40.4	--	241	--	54.3	--	0.08	J+	< 0.02	U	2560	--	2470	--	19.4	--	12.4	--	14	--	4.6	--	NM	--
< 0.20	U	32.3	--	169	--	22.9	--	0.05	J+	< 0.02	U	2070	J	2010	J	11.3	--	6.6	--	7..8	--	3.7	--	< 0.1	U
< 0.20	U	21.2	--	102	--	< 20.0	U	0.05	J+	< 0.02	U	1240	--	1230	--	8.8	--	4.9	--	5	--	2.5	--	NM	--
< 0.20	U	30.7	--	65.2	--	24.8	--	0.03	J+	< 0.02	U	1880	--	1860	--	10.5	--	7.7	--	3.6	--	1.9	--	NM	--
< 0.20	U	42.2	--	90.3	--	37.4	--	0.02	J+	< 0.02	U	2740	--	2780	--	15.7	--	11.5	--	2.9	--	1.8	--	< 0.1	U
< 0.20	U	42.1	--	137	--	41.8	--	0.06	J+	< 0.02	U	2710	--	2710	--	15.5	--	9.4	--	3.2	--	2.1	--	< 0.1	U
< 0.20	U	48.7	--	82.7	--	28.7	--	< 0.02	U	< 0.02	U	3240	--	3170	--	13	J-	10.7	J-	4.1	--	2.1	--	< 0.1	U
< 0.20	U	21.5	--	197	--	< 20.0	U	0.08	J+	< 0.02	U	1330	--	1270	--	13.7	--	3.6	J-	8.1	--	2.9	--	< 0.1	U
< 0.2	U	47.9	--	97.9	--	42.8	--	0.02	J+	< 0.02	U	3120	--	3160	--	14.2	--	8.8	--	2.6	--	1.5	--	< 0.1	U
< 0.2	U	43.2	--	130	--	36.1	--	0.05	J+	< 0.02	U	2910	--	2880	--	16.9	--	8.2	--	4.2	--	1.8	--	0.2	--
< 0.2	U	49.6	--	76.4	--	< 20	U	0.04	--	< 0.02	U	3350	--	3370	--	12.6	--	7.6	--	2.3	--	1.4	--	< 0.1	U

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Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	--	NM	--	NM	--	NM	--	0.061	--	NM	--	NM	--	42.8	J	22.5	J	956	--	812	--	< 1.0	U	< 1.0	U
0.57	--	0.49	--	0.2	J+	< 0.2	U	< 0.050	U	0.54	--	0.54	--	22.2	J+	< 20.0	U	703	--	627	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	20	J+	< 20.0	U	642	--	662	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	31.1	J-	< 20.0	UJ	786	--	710	--	< 1.0	UJ	< 1.0	UJ
0.92	--	0.84	--	< 0.2	U	0.2	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	889	--	906	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 20.0	UJ	< 20.0	UJ	888	--	880	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 20.0	UJ	< 20.0	UJ	836	--	869	--	< 1.0	U	< 1.0	U
0.79	J+	0.76	J+	< 0.2	U	< 0.2	U	< 0.050	U	0.43	--	0.43	--	< 20.0	UJ	< 20.0	UJ	907	--	890	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	0.062	--	NM	--	NM	--	< 20.0	UJ	< 20.0	UJ	903	--	856	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	0.06	--	NM	--	NM	--	< 20.0	UJ	< 20.0	UJ	909	--	910	--	< 1.0	U	< 1.0	U
0.94	--	0.94	--	0.2	J+	0.3	J+	< 0.050	U	0.6	--	0.6	--	< 20.0	U	< 20.0	U	927	--	1010	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	0.051	--	NM	--	NM	--	< 20.0	U	< 20.0	U	995	--	920	--	< 1.0	UJ	< 1.0	UJ
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	UJ	< 40.0	UJ	1090	--	1040	--	< 1.0	U	< 1.0	U
0.57	--	0.55	--	0.28	J+	1.11	J+	< 0.050	U	0.59	--	0.59	--	< 40.0	U	< 40.0	U	720	J+	636	J+	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	UJ	< 40.0	UJ	573	--	536	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	UJ	< 40.0	UJ	756	J+	740	J+	< 1.0	U	< 1.0	U
0.96	--	0.97	--	< 0.20	U	< 0.20	U	< 0.050	U	0.68	--	0.68	--	< 40.0	U	< 40.0	U	838	--	799	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	U	< 40.0	U	926	--	920	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	UJ	< 40.0	UJ	850	--	811	--	< 1.0	U	< 1.0	U
0.91	--	0.89	--	< 0.20	U	< 0.20	U	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	733	--	689	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	UJ	< 40.0	UJ	930	--	965	--	< 1.0	UJ	< 1.0	UJ
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40	UJ	< 40	UJ	877	--	907	--	< 1	UJ	< 1	UJ
0.88	J+	0.88	J+	< 0.2	U	< 0.2	U	0.05	--	0.57	--	0.52	--	< 40	UJ	< 40	UJ	901	--	908	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	0.066	--	NM	--	NM	--	< 40	UJ	< 40	UJ	1060	--	1060	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	0.058	--	NM	--	NM	--	< 40.0	UJ	< 40.0	UJ	964	--	937	--	NM	--	NM	--
0.72	--	0.72	--	< 0.2	U	< 0.2	U	< 0.050	U	0.41	J+	0.41	J+	< 40.0	UJ	< 40.0	UJ	909	--	792	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	U	< 40.0	U	530	J-	500	J-	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	< 0.050	U	NM	--	NM	--	< 40.0	U	< 40.0	U	637	--	637	--	NM	--	NM	--
0.86	--	0.83	--	0.3	J+	0.2	J+	< 0.050	U	0.59	J+	0.59	J+	< 40.0	U	< 40.0	U	809	--	843	--	< 1.0	U	< 1.0	U
0.76	--	0.77	--	< 0.2	U	< 0.2	U	< 0.050	U	0.9	J-	0.89	J-	< 40.0	U	< 40.0	U	900	--	894	--	< 1.0	U	< 1.0	U
0.86	--	0.87	--	< 0.2	U	< 0.2	U	< 0.050	U	0.53	J+	0.52	J+	< 40.0	U	< 40.0	U	1000	--	969	--	< 1.0	U	< 1.0	U
0.56	--	0.57	--	0.2	J+	< 0.2	U	< 0.050	U	< 0.45	U	0.44	J+	< 40.0	U	< 40.0	U	663	--	620	--	< 1.0	U	< 1.0	U
0.97	J+	0.97	J+	< 0.2	U	< 0.2	U	< 0.05	U	0.51	--	0.5	J+	< 40	U	< 42.6	U	905	--	905	--	< 1	U	< 1	U
0.87	--	0.86	--	0.3	J+	0.3	J+	< 0.05	U	0.74	J+	0.74	J+	< 40	U	< 40	U	835	--	828	--	< 1	UJ	< 1	UJ
0.92	--	0.92	--	0.2	--	0.2	--	< 0.05	U	1.43	--	1.39	--	< 40	U	< 40	U	973	--	963	--	< 1	U	< 1	U

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	--	NM	--	1920	--	1880	--	45.5	--	6	--	6	--	NM	--	NM	--	NM	--	NM	--	1.6	J+	< 0.5	U
< 0.020	U	< 0.020	U	1560	--	1510	--	25.5	--	7.5	--	2.38	--	< 0.02	U	< 0.02	U	0.5	--	0.2	--	0.6	J+	< 0.5	U
NM	--	NM	--	1530	--	1510	--	44.5	--	< 5.0	U	2.37	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	0.6	J+
NM	--	NM	--	2210	--	2220	--	56.5	--	8	--	3.85	--	NM	--	NM	--	NM	--	NM	--	1.3	J+	< 0.5	U
< 0.04	U	< 0.04	U	2510	--	2540	--	85	--	< 5.0	U	5.78	--	< 0.02	U	< 0.02	U	0.3	--	0.2	--	< 0.5	U	0.6	J+
NM	--	NM	--	2410	--	2550	--	50	--	< 5.0	U	7.01	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	0.6	J+
NM	--	NM	--	2470	--	2530	--	57	--	< 5.0	U	7.39	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	0.6	J+
< 0.02	U	< 0.02	U	2490	--	2550	--	50	--	< 5.0	U	6.64	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	< 0.5	U	3	J+
NM	--	NM	--	2630	--	2560	--	53	--	< 5.0	U	9.55	--	NM	--	NM	--	NM	--	NM	--	0.6	J+	0.7	J+
NM	--	NM	--	2680	--	2740	--	60	--	< 5.0	U	9.09	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	0.5	J+
< 0.02	U	< 0.02	U	2810	--	2960	--	76	--	< 5.0	U	9.27	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	2850	--	2800	--	47	--	< 5.0	U	8.8	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	< 0.5	U
NM	--	NM	--	2520	--	2490	--	63	--	5.5	--	8.48	--	NM	--	NM	--	NM	--	NM	--	1.1	J+	0.8	J+
< 0.02	U	< 0.02	U	1570	--	1580	--	37.5	--	13.5	--	2.8	--	< 0.020	U	< 0.020	U	0.6	--	< 0.2	U	1.2	J+	2.7	J+
NM	--	NM	--	1510	--	1520	--	45	--	< 5.0	U	2.61	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	< 0.5	U
NM	--	NM	--	2210	--	2190	--	54.5	--	< 5.0	U	4.72	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2370	--	2370	--	72	--	< 5.0	U	5.88	--	< 0.020	U	< 0.020	U	0.3	--	0.2	--	< 0.5	U	< 0.5	U
NM	--	NM	--	2550	--	2580	--	75	--	< 5.0	U	6.61	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	0.6	J+
NM	--	NM	--	2320	--	2350	--	55	--	< 5.0	U	5.86	--	NM	--	NM	--	NM	--	NM	--	0.7	J+	0.5	J+
< 0.02	U	< 0.02	U	2250	--	2250	--	59	--	< 5.0	U	6.69	--	< 0.02	U	< 0.02	U	0.3	--	< 0.2	U	0.8	J+	0.6	J+
NM	--	NM	--	2680	--	2790	--	73	--	< 5.0	U	8.35	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	0.6	J+
NM	--	NM	--	2550	--	2530	--	68.5	--	< 5.0	U	8.35	--	NM	--	NM	--	NM	--	NM	--	< 0.5	UJ	0.5	--
< 0.02	U	< 0.02	U	2730	--	2780	--	60	--	< 5	U	8.83	--	< 0.02	U	< 0.02	U	0.2	J+	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	2930	--	2920	--	71	--	< 5	U	10.1	--	NM	--	NM	--	NM	--	NM	--	< 0.5	UJ	< 0.5	UJ
NM	--	NM	--	2340	--	2300	--	52	--	< 5.0	U	8.38	--	NM	--	NM	--	NM	--	NM	--	0.7	J+	< 0.5	U
< 0.02	U	< 0.02	U	2060	--	2040	--	56	--	< 5.0	U	6.97	--	< 0.02	U	< 0.02	U	0.4	--	0.2	--	0.6	J+	< 0.5	U
NM	--	NM	--	1400	--	1410	--	38	--	< 5.0	U	2.33	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	< 0.5	U
NM	--	NM	--	2010	--	1990	--	44	--	< 5.0	U	3.46	--	NM	--	NM	--	NM	--	NM	--	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2450	--	2480	--	63	--	< 5.0	U	5.13	--	< 0.02	U	< 0.02	U	0.2	--	0.2	--	< 0.5	U	0.8	J+
< 0.02	U	< 0.02	U	2520	--	2570	--	99	J+	< 5.0	U	6.75	--	< 0.02	U	< 0.02	U	0.3	--	< 0.2	U	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2870	--	2840	--	70	--	< 5.0	U	9.76	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	< 0.5	U	0.5	J+
< 0.02	U	< 0.02	U	1670	--	1700	--	38.5	--	5.5	--	2.56	--	< 0.02	U	< 0.02	U	0.4	--	< 0.2	U	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2640	--	2650	--	56	--	< 5	U	6.48	--	< 0.02	U	< 0.02	U	0.2	--	0.2	--	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	2530	--	2500	--	50	--	< 5	U	7.21	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	3.6	--	2.5	J+
< 0.02	U	< 0.02	U	2950	--	2980	--	52	--	< 5	U	8.72	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.8	--	1.1	--

Exhibit 4 - Photos of Keyway Dam Seeps

Three seeps emerge from the base of the Keyway Dam. Two (YP-S-6 and YP-S-7) are described in the Surface Water Quality Baseline Study as "…contain[ing] stagnant liquid water year-round and [are] connected to the Keyway Marsh, but generally only visible flows at the surface during the period of snow-melt" (pgs. 4-64 and 4-68). The northern-most seep (YP-S-8), "…flows visibly into the Keyway Marsh year-round" (pg 4-60).

Figure 4A. Photo of the South Keyway Dam seep (YP-S-6) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 14. Photo caption reads, "YP-S-6, South Keyway Dam seep. Looking north and across seep emerging from base of dam, flows downstream to right. May 2013."

Figure 4B. Photo of the South Keyway Dam seep (YP-S-6) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 14. Photo caption reads, "YP-S-6, South Keyway Dam seep. Looking east and downstream at seep connecting with Keyway Marsh. May 2013."

Figure 4C. Photo of the South Keyway Dam seep (YP-S-6) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 15. Photo caption reads, "YP-S-6, South Keyway Dam seep. Close-up looking north at seep. May 2013."

Figure 4D. Photo of the Middle Keyway Dam seep (YP-S-7) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 15. Photo caption reads, "YP-S-7, Middle Keyway Dam seep. Looking south and across seep source emerging from base of dam, flows downstream to left. May 2013."

Figure 4E. Photo of the Middle Keyway Dam seep (YP-S-7) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 15. Photo caption reads, “YP-S-7, Middle Keyway Dam seep. Looking east and downstream at seep source connecting with Keyway Marsh. May 2013.”

Figure 4F. Photo of the Middle Keyway Dam seep (YP-S-7) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 15. Photo caption reads, “YP-S-7, Middle Keyway Dam seep. Close-up looking east and downstream at seep source emerging from base of dam. May 2013.”

Figure 4G. Photo of the North Keyway Dam seep (YP-S-8) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 16. Photo caption reads, “YP-S-8, North Keyway Dam seep. Looking south and across seep emerging from base of dam, flows downstream to left. May 2013.”

Figure 4H. Photo of the North Keyway Dam seep (YP-S-8) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 16. Photo caption reads, "YP-S-8, North Keyway Dam seep. Looking east and downstream at seep flowing into Keyway Marsh. May 2013."

Figure 4I. Photo of the North Keyway Dam seep (YP-S-8) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 16. Photo caption reads, "YP-S-8, North Keyway Dam seep. Close-up looking east and downstream at seep source emerging from base of dam. May 2013."

Exhibit 5 - Map showing the Locations of the Meadow Creek Seeps

Keyway Seeps (YP-S-6, YP-S-7, YP-S-8); Keyway Marsh outlet (YP-S-10); Heap Leach seeps (YP-S-5, YP-T-23A); and the Meadow Creek Adit (YP-AS-7)

Exhibit 6 - Sampling Data from the Three Keyway Dam Seeps

Table 6A. Summary statistics of data obtained from the Surface Water Quality Baseline Study, Appendix E, pages 81-98. Data was collected from 2012-2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)												
µg/L	**Aluminum**		**Antimony**		**Arsenic**		**Cyanide**	**Iron**		**Manganese**		**Mercury, ng/L**
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**
South Keyway Dam Seep (YP-S-6)												
Minimum	0.0	4.2	2.9	4.6	119.0	235.0	5.3	0.0	420.0	47.9	176.0	1.1
Maximum	76.9	265.0	85.2	229.0	943.0	34400.0	27.3	4820.0	168000.0	2250.0	3310.0	201.0
Average	6.4	57.8	30.3	48.5	428.8	4147.1	15.0	1482.9	18943.3	1024.0	1396.5	58.3
Median	0.0	30.9	14.7	22.4	365.5	1580.0	14.8	1095.0	7720.0	1039.5	1450.0	33.2
# Samples	16	16	16	16	16	16	16	16	16	16	16	16
Middle Keyway Dam Seep (YP-S-7)												
Minimum	0.0	0.0	15.7	9.2	485.0	2540.0	6.4	23.0	5840.0	10.5	81.9	0.0
Maximum	13.1	148.0	380.0	1760.0	4300.0	48600.0	34.1	8070.0	137000.0	1510.0	3710.0	345.0
Average	2.2	36.5	81.0	353.5	2352.0	13127.1	20.8	3737.3	45177.9	1173.4	1700.9	72.5
Median	0.0	13.3	47.7	144.0	2495.0	7030.0	21.6	3405.0	18250.0	1265.0	1535.0	37.6
# Samples	14	14	14	14	14	14	14	14	14	14	14	14
North Keyway Dam Seep (YP-S-8)												
Minimum	0.0	0.0	246.0	307.0	1590.0	1710.0	0.0	4970.0	7990.0	883.0	913.0	2.8
Maximum	11.4	19.9	391.0	1700.0	2870.0	4650.0	38.6	8040.0	19000.0	1190.0	1190.0	36.5
Average	1.9	7.5	312.5	682.3	2354.0	3172.0	20.0	6780.0	11751.3	1009.2	1033.3	13.4
Median	0.0	4.6	326.0	505.0	2400.0	2980.0	18.8	6860.0	9640.0	973.0	1020.0	7.4
# Samples	15	15	15	15	15	15	15	15	15	15	15	15

YP-S-6

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-S-6	5	2012	1.1E-02	--	0	--	NM	--	8.4	--	NM	--	6.0	--	15	--	169	--	53.8	--	< 2.0	U
YP-S-6	6	2012	NA	--	NM	--	0.619	--	4.7	--	7.3	--	14.6	--	14	--	NM	--	NM	--	NM	--
YP-S-6	7	2012	NA	--	NM	--	0.410	--	5.0	--	7.0	--	19.8	--	50	--	NM	--	NM	--	NM	--
YP-S-6	8	2012	NA	--	0	--	0.639	--	4.4	--	7.2	--	12.3	--	87	--	26.8	--	265	--	< 2.0	U
YP-S-6	9	2012	NA	--	NM	--	0.667	--	2.5	--	7.2	--	6.8	--	32	--	NM	--	NM	--	NM	--
YP-S-6	10	2012	NA	--	NM	--	0.665	--	4.9	--	7.3	--	2.4	--	68	--	NM	--	NM	--	NM	--
YP-S-6	11	2012	NA	--	0	--	0.795	--	4.3	--	6.9	--	4.8	--	81	--	184	--	19	--	< 2.0	U
YP-S-6	1	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-6	2	2013	2.8E-04	--	0	--	0.708	--	7.4	--	7.9	--	1.2	--	33	--	174	--	123	--	76.9	--
YP-S-6	3	2013	NA	--	NM	--	0.165	--	7.4	--	7.8	--	1.3	--	129	--	NM	--	NM	--	NM	--
YP-S-6	4	2013	5.9E-03	--	NM	--	0.492	--	7.4	--	7.2	--	4.7	--	30	--	NM	--	NM	--	NM	--
YP-S-6	5	2013	NA	--	0	--	0.610	--	11.0	--	7.4	--	7.4	--	1.6	--	187	--	166	J	14	J
YP-S-6	6	2013	NA	--	NM	--	0.627	--	5.6	--	7.0	--	10.1	--	16	--	NM	--	NM	--	NM	--
YP-S-6	7	2013	NA	--	NM	--	0.632	--	3.4	--	6.8	--	11.6	--	175	--	NM	--	NM	--	NM	--
YP-S-6	8	2013	NA	--	0	--	0.688	--	2.3	--	7.1	--	11.8	--	15	--	175	--	56.3	--	< 2.0	U
YP-S-6	9	2013	NA	--	NM	--	0.666	--	4.7	--	7.1	--	12.0	--	10	--	NM	--	NM	--	NM	--
YP-S-6	10	2013	NA	--	NM	--	0.535	--	8.4	--	7.4	--	5.2	--	7.3	--	NM	--	NM	--	NM	--
YP-S-6	11	2013	NA	--	0	--	0.690	--	5.1	--	7.0	--	4.0	--	52	--	182	--	21.3	--	< 2.0	U
YP-S-6	12	2013	NA	--	NM	--	0.034	--	3.0	--	7.8	--	0.0	--	249	--	NM	--	NM	--	NM	--
YP-S-6	1	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-6	2	2014	NA	--	0	--	0.674	--	6.3	--	7.0	--	2.1	--	436	--	169	--	4.2	J+	3.2	J+
YP-S-6	3	2014	NA	--	NM	--	0.664	--	6.6	--	8.0	--	2.0	--	140	--	NM	--	NM	--	NM	--
YP-S-6	4	2014	NA	--	NM	--	0.619	--	4.9	--	7.3	--	4.5	--	17	--	NM	--	NM	--	NM	--
YP-S-6	5	2014	NA	--	0	--	0.506	--	7.3	--	7.1	--	6.5	--	8.7	--	140	--	32.2	--	< 2.0	U
YP-S-6	6	2014	NA	--	NM	--	0.609	--	5.3	--	6.8	--	11.2	--	4.1	--	NM	--	NM	--	NM	--
YP-S-6	7	2014	NA	--	NM	--	0.611	--	2.4	--	6.8	--	13.1	--	26	--	NM	--	NM	--	NM	--
YP-S-6	8	2014	NA	--	0	--	0.627	--	1.3	--	7.1	--	11.6	--	34	--	187	--	29.6	--	3.1	--
YP-S-6	11	2014	NA	--	0	--	0.631	--	5.0	--	7.4	--	2.6	--	8.3	--	187	--	19.3	--	< 2.0	U
YP-S-6	2	2015	NA	--	0	--	0.630	--	2.6	--	7.2	--	3.5	--	10	--	163	--	10.3	--	3.1	--
YP-S-6	5	2015	NA	--	0	--	0.662	--	8.5	--	7.2	--	7.4	--	6.6	--	212	--	36.7	--	< 2.0	U
YP-S-6	8	2015	NA	--	0	--	0.691	--	1.7	--	7.0	--	9.4	--	68	--	186	--	5.9	--	2.4	--
YP-S-6	11	2015	NA	--	0	--	0.764	--	2.5	--	7.2	--	1.2	--	582	--	191	--	70.2	--	< 2	UJ
YP-S-6	2	2016	NA	--	0	--	0.833	--	2.2	--	7.3	--	1.7	--	135	--	172	--	11.7	--	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-S-6

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	74	--	72.4	--	21.4	--	265	--	163	--	25.3	J+	23.2	J+	< 0.02	U	< 0.02	U	169	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.062	--	36.6	--	17.4	--	867	--	3210	--	177	--	75.5	--	39.4	--	0.03	--	< 0.02	U	26.8	--	< 10.0	U	14.8	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	19.2	--	9.99	--	1350	--	9600	--	419	--	95.4	--	27.8	--	0.03	J+	< 0.02	U	184	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	18	--	13	--	15.9	--	1700	--	877	--	54.4	--	37.6	--	< 0.02	U	< 0.02	U	174	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	88.4	--	85.2	--	9.6	J	235	--	199	--	27.9	--	29.5	--	< 0.02	U	< 0.02	U	187	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.081	--	20.1	--	14.5	--	493	--	1570	--	559	--	62.3	--	52.6	--	< 0.02	U	< 0.02	U	175	--	< 20.0	U	20.6	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	11	--	7.48	--	937	--	2290	--	465	--	72	--	49.6	--	< 0.02	U	< 0.02	U	182	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.05	U	4.64	--	2.86	--	1060	--	5300	--	284	--	69	--	30.3	--	< 0.02	U	< 0.02	U	169	J	< 20	U	< 20	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	82.7	--	66.7	--	11.4	--	384	--	176	--	21.4	--	17.4	--	< 0.02	U	< 0.02	U	140	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.134	--	14.7	--	10.4	--	695	--	1590	--	653	--	57.5	--	48.2	--	< 0.02	U	< 0.02	U	187	--	< 20.0	U	< 20.0	U
< 0.050	U	24.7	--	22.8	--	190	--	522	--	312	--	41.3	--	36.9	--	< 0.02	U	< 0.02	U	187	--	21.3	J+	21.8	J+
< 0.050	U	37.7	--	37.8	--	44.7	--	580	--	119	--	26.3	--	20.8	--	< 0.02	U	< 0.02	U	163	--	< 20.0	U	< 20.0	U
< 0.050	U	85.5	--	82.6	--	1	--	277	--	166	--	25.2	--	21.1	--	< 0.02	U	< 0.02	U	212	--	< 20.0	U	< 20.0	U
0.087	--	15.3	--	12.9	--	925	--	1470	--	928	--	63.9	--	61.5	--	< 0.02	U	< 0.02	U	186	--	< 20	U	< 21.3	U
0.171	J	229	--	14.8	J	7440	J	34400	--	420	J	492	--	57.8	--	0.13	--	< 0.02	U	191	--	32.2	J	< 20	U
< 0.05	U	14.2	--	13.7	--	1530	--	2960	--	943	--	66.4	--	42.7	--	< 0.02	U	< 0.02	U	172	--	23.3	--	21	--

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Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	74200	--	72000	--	< 9.0	U	19.9	--	1.3	J+	< 0.2	U	2.2	J+	2.06	J+	0.6	--	0.4	J+	0.0098	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	79400	--	78100	--	< 9.0	U	35.7	--	0.4	J+	< 0.2	U	5	--	3.92	J+	0.8	J+	0.2	J+	0.0201	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	96200	--	94200	--	< 9.0	U	72.5	--	0.3	J+	< 0.2	U	6.47	--	5.62	--	0.4	--	0.1	--	0.0206	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	88600	--	82400	--	< 9.0	U	42.9	--	0.2	J+	< 0.2	U	5.27	--	4.57	J+	0.8	J+	0.7	J+	0.0254	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	79100	--	78200	--	< 9.0	U	18.2	--	< 0.2	U	< 0.2	U	2.31	J+	2.17	J+	0.5	J+	0.3	J+	0.01	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	82000	--	80800	--	< 9.0	U	41.9	--	< 0.2	U	< 0.2	U	5.27	--	5	--	0.2	J+	< 0.1	U	0.024	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	84600	--	81000	--	< 15	U	34.8	--	0.2	J+	< 0.2	U	6.25	--	5.77	--	0.3	J+	< 0.1	U	0.0168	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	84700	--	79800	J	< 15	U	44.9	--	< 0.2	U	0.5	J+	4.29	J+	4.04	J+	0.3	J+	0.3	J+	0.0194	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	60100	--	53700	--	< 15	U	16	--	0.3	J+	< 0.2	U	1.75	J+	1.49	J+	0.4	J+	0.3	J+	0.006	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	73900	--	71900	--	< 15	U	30	--	0.4	J+	< 0.2	U	4.35	--	4.14	--	0.4	J+	0.3	J+	0.0111	--
< 0.02	U	< 0.02	U	82000	--	81100	--	< 15	U	38.5	--	0.2	J+	< 0.2	U	4.75	--	4.35	--	0.4	J+	0.3	J+	0.0084	--
< 0.02	U	< 0.02	U	65000	--	63300	--	< 15	U	17	--	< 0.2	U	< 0.2	U	2.1	--	1.89	--	0.3	J+	0.5	J+	0.0063	--
< 0.02	U	< 0.02	U	79300	--	77500	--	< 15	U	24.7	--	0.4	J+	0.2	J+	3.06	--	2.82	--	0.7	J+	0.4	J+	0.0053	--
< 0.02	U	< 0.02	U	78200	--	83200	--	< 15	U	36	--	< 0.2	U	< 0.2	U	4.79	--	5.12	--	0.24	--	0.26	--	0.0127	--
< 0.05	U	< 0.02	U	101000	--	80200	--	< 15	U	45.8	--	0.8	J+	< 0.2	U	7.18	--	6.48	--	1.8	J+	0.7	J+	0.0175	J+
< 0.02	U	< 0.02	U	92400	--	92100	--	< 15	U	54.1	--	< 0.2	U	< 0.2	U	6.27	--	5.57	--	0.5	--	0.3	--	0.0273	--

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	266	--	587	--	73.6	--	0.1	J+	< 0.02	U	19700	--	19200	--	329	--	264	--	77.3	--	18.8	--	0.12	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	286	--	14100	--	143	--	0.41	--	< 0.02	U	21400	--	20600	--	1850	--	1180	--	166	--	8.7	--	0.66	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	349	--	34900	--	1110	--	0.04	J+	< 0.02	U	26500	--	24100	--	1020	--	322	--	16.8	--	5.4	J+	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	321	--	8400	--	4090	--	0.22	--	0.14	--	24300	--	24000	--	2190	--	999	--	10.4	--	13.9	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	286	--	420	J	26.9	J	0.24	J	0.02	--	21500	--	21500	--	176	--	47.9	--	123	J	9.5	--	0.42	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	293	--	7080	--	2030	--	0.08	J+	< 0.02	U	21300	--	20900	--	1830	--	1660	--	10.4	--	8.2	--	0.3	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	304	--	9020	--	1080	--	0.04	J+	< 0.02	U	22400	--	22100	--	2000	--	1750	--	66.7	--	9.6	--	0.5	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.2	--	300	--	26500	--	1060	--	< 0.02	U	< 0.02	U	21400	--	21100	--	1240	--	839	--	1.1	--	< 1	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	213	--	943	--	81.4	--	0.06	J+	< 0.02	U	15400	--	14500	--	292	--	242	--	38.5	--	15	--	0.2	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	267	--	7630	--	2450	--	0.07	J+	0.02	J+	20000	--	19900	--	2150	--	2000	--	27.9	--	7.3	--	0.5	--
< 0.20	U	291	--	2690	--	1730	--	0.04	J+	0.04	J+	20900	--	21100	--	1550	--	1450	--	20.3	--	7.68	--	0.23	--
< 0.20	U	237	--	1770	--	22	--	< 0.02	U	< 0.02	U	18100	--	18200	--	406	--	334	--	12.8	--	4.7	--	< 0.1	U
< 0.20	U	290	--	542	--	< 20.0	U	0.19	J+	< 0.02	U	22400	--	22100	--	471	--	136	--	85.3	--	19.6	--	0.3	--
< 0.2	U	284	--	7810	--	4820	--	< 0.02	U	< 0.02	U	21600	--	22200	--	2180	--	2250	--	49.2	--	7.9	--	0.3	--
< 0.2	U	352	--	168000	J	1840	J	0.41	J+	0.03	J+	24400	--	23300	--	3310	--	1830	--	201	--	6	--	1	--
0.24	--	340	--	12700	--	3170	--	0.02	--	< 0.02	U	26600	--	27600	--	1350	--	1080	--	25.4	--	4.8	--	0.3	--

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Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
3.61	--	3.65	--	1.3	J+	0.8	J+	0.215	--	0.67	--	0.45	J+	20.1	J-	< 20.0	UJ	6440	--	6290	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
3.63	--	3.39	--	1.8	J+	1.1	J+	< 0.050	U	3.36	--	3.36	--	187	--	< 40.0	UJ	8450	--	8020	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
3.48	J+	2.51	J+	1.2	J+	0.6	J+	< 0.050	U	0.64	--	0.64	--	359	--	< 20.0	UJ	9290	--	8150	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.43	--	2.43	--	1.7	J+	1.5	J+	< 0.050	U	0.83	--	0.83	--	146	--	77.3	--	9730	--	9730	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
3.7	--	3.89	--	0.52	J+	0.39	J+	0.143	--	1.03	--	0.89	--	< 40.0	U	< 40.0	U	6080	--	6140	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.66	--	4.8	--	1.03	--	0.81	--	< 0.050	U	0.55	J+	0.55	J+	99.2	--	< 40.0	U	8560	--	8350	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
5.21	--	4.92	--	1.31	J+	0.98	J+	< 0.050	U	1.29	--	1.29	--	104	--	< 80.0	UJ	8970	--	8680	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.85	J+	2.49	J+	0.8	J+	1	J+	< 0.05	U	1.03	--	1.03	--	235	--	< 40	UJ	8300	--	8040	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
3.29	--	2.89	--	0.5	J+	0.4	J+	< 0.050	U	0.84	J+	0.84	J+	67.4	--	< 40.0	U	5000	--	4910	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
3.87	--	3.98	--	2.2	J+	1.9	J+	< 0.050	U	0.55	--	0.55	--	94.6	--	< 40.0	U	7460	--	7460	--	< 1.0	UJ	< 1.0	UJ
2.9	--	3.1	--	1.4	J+	1.3	J+	0.077	J	0.71	J-	0.64	J-	< 40.0	U	< 40.0	U	7170	--	7160	--	< 1.0	U	< 1.0	U
2.81	--	2.41	--	0.6	J+	0.7	J+	0.383	--	0.95	J+	0.57	J+	72	--	< 40.0	U	5170	--	5000	--	< 1.0	U	< 1.0	U
2.23	--	2.69	--	0.6	J+	0.4	J+	0.18	--	1.45	--	1.27	--	82.1	--	< 40.0	U	6600	--	6350	--	< 1.0	U	< 1.0	U
3.52	J+	3.72	J+	1.34	--	1.46	--	< 0.05	U	1.44	--	1.44	--	81.1	--	< 42.6	U	7520	--	7800	--	< 1	U	< 1	U
5.32	--	3.97	--	4.3	J+	2.1	J+	< 0.05	U	3.13	J+	3.08	J+	2600	J	< 40	UJ	8640	--	8000	--	< 2.5	U	< 1	UJ
5.12	--	4.27	--	1.6	--	1.5	--	< 0.05	U	0.92	--	0.89	J+	256	--	< 40	U	10600	--	10700	--	< 1	U	< 1	U

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.02	U	< 0.02	U	11600	--	11200	--	330	--	6	--	80.8	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.04	U	< 0.04	U	15100	--	14600	--	373	--	83.5	--	86.4	--	0.07	J+	< 0.02	U	0.8	--	< 0.2	U	2.1	J+	0.8	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	19900	--	18000	--	472	--	58	--	115	--	< 0.02	U	< 0.02	U	1	--	< 0.2	U	1.5	J+	1.2	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	17600	--	17600	--	388	--	29	--	107	--	< 0.02	U	< 0.02	U	0.5	--	0.3	--	1.3	J+	2	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	11700	--	11700	--	369	--	15	J	82.4	--	< 0.020	U	< 0.020	U	0.4	--	0.2	--	3.5	J+	0.9	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	15700	--	15300	--	420	--	18.5	--	92.3	--	< 0.020	U	< 0.020	U	0.3	--	< 0.2	U	1.3	J+	0.7	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	17500	--	17100	--	382	--	23	--	98.1	--	< 0.02	U	< 0.02	U	0.3	--	< 0.2	U	1.5	J+	1.2	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	17200	--	17000	--	405	J	49.5	--	91.5	--	< 0.02	U	< 0.02	U	0.2	J+	< 0.2	U	0.9	J+	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	8250	--	7560	--	244	--	< 5.0	U	67.1	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	0.04	J+	15300	--	15200	--	392	--	22	--	79.3	--	0.06	J+	0.05	J+	0.5	--	< 0.2	UJ	1.3	J+	0.6	J+
< 0.02	U	< 0.02	U	16500	--	16600	--	409	--	7.5	--	84.3	--	0.03	J+	< 0.02	U	< 0.2	U	< 0.2	U	0.7	J+	0.5	J+
< 0.02	U	< 0.02	U	8960	--	8700	--	282	J	6	--	66.8	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.6	J+
0.05	--	< 0.02	U	16800	--	16900	--	387	--	38.5	--	82.7	--	< 0.02	U	< 0.02	U	0.4	--	< 0.2	U	1.1	J+	0.6	J+
< 0.02	U	< 0.02	U	16900	--	17100	--	402	--	29	--	93.1	--	< 0.02	U	0.023	J+	0.21	--	< 0.2	U	1.9	J+	0.8	J+
0.12	--	< 0.02	U	18800	--	18400	--	418	--	556	J	107	--	0.13	--	0.02	--	3.1	--	< 0.2	U	7.6	--	1	J+
< 0.02	U	< 0.02	U	22100	--	23000	--	495	--	31	--	148	--	< 0.02	U	< 0.02	U	0.4	--	< 0.2	U	0.9	J+	< 0.5	U

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Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-S-7	5	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-7	6	2012	NA	--	NM	--	0.768	--	3.4	--	7.2	--	12.3	--	17	--	NM	--	NM	--	NM	--
YP-S-7	7	2012	NA	--	NM	--	0.787	--	4.5	--	7.1	--	16.8	--	36	--	NM	--	NM	--	NM	--
YP-S-7	8	2012	NA	--	0	--	0.925	--	1.8	--	7.1	--	11.2	--	33	--	156	--	9.5	--	2.1	J+
YP-S-7	9	2012	NA	--	NM	--	0.968	--	1.6	--	7.1	--	10.6	--	49	--	NM	--	NM	--	NM	--
YP-S-7	10	2012	NA	--	NM	--	0.945	--	1.8	--	7.1	--	7.7	--	125	--	NM	--	NM	--	NM	--
YP-S-7	11	2012	NA	--	0	--	0.977	--	3.8	--	6.9	--	6.1	--	113	--	161	--	3.2	J	< 2.0	U
YP-S-7	1	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-7	2	2013	NA	--	0	--	0.965	--	1.6	--	7.6	--	5.0	--	13	--	162	--	< 2.0	U	< 2.0	U
YP-S-7	3	2013	NA	--	NM	--	0.938	--	2.0	--	7.4	--	6.4	--	127	--	NM	--	NM	--	NM	--
YP-S-7	4	2013	1.2E-02	--	NM	--	0.510	--	8.0	--	7.5	--	5.9	--	5.4	--	NM	--	NM	--	NM	--
YP-S-7	5	2013	NA	--	0	--	0.788	--	1.4	--	7.1	--	8.1	--	0.7	--	159	--	2	--	< 2.0	U
YP-S-7	6	2013	NA	--	NM	--	0.802	--	4.1	--	6.9	--	10.5	--	9	--	NM	--	NM	--	NM	--
YP-S-7	7	2013	NA	--	NM	--	0.862	--	1.8	--	6.8	--	10.1	--	22	--	NM	--	NM	--	NM	--
YP-S-7	8	2013	NA	--	0	--	0.913	--	1.8	--	7.1	--	10.1	--	18	--	161	--	78.1	--	10.6	--
YP-S-7	9	2013	NA	--	NM	--	0.920	--	2.2	--	7.0	--	14.1	--	20	--	NM	--	NM	--	NM	--
YP-S-7	10	2013	NA	--	NM	--	0.785	--	3.0	--	7.1	--	7.4	--	4.5	--	NM	--	NM	--	NM	--
YP-S-7	11	2013	NA	--	0	--	0.933	--	2.2	--	6.9	--	6.6	--	4.4	--	162	--	13.6	--	< 2.0	U
YP-S-7	12	2013	NA	--	NM	--	0.948	--	2.6	--	7.4	--	1.7	--	21	--	NM	--	NM	--	NM	--
YP-S-7	1	2014	NA	--	NM	--	0.908	--	5.4	--	7.0	--	3.6	--	75	--	NM	--	NM	--	NM	--
YP-S-7	2	2014	NA	--	0	--	0.915	--	5.0	--	7.0	--	3.5	--	196	--	198	--	13	J+	< 2	U
YP-S-7	3	2014	NA	--	NM	--	0.906	--	3.7	--	7.5	--	5.5	--	2.8	--	NM	--	NM	--	NM	--
YP-S-7	4	2014	6.9E-03	--	NM	--	0.553	--	8.7	--	7.4	--	5.9	--	15	--	NM	--	NM	--	NM	--
YP-S-7	5	2014	NA	--	0	--	0.716	--	3.3	--	6.9	--	13.6	--	4	--	157	--	8.4	--	< 2.0	U
YP-S-7	6	2014	NA	--	NM	--	0.734	--	1.4	--	6.6	--	10.3	--	1.4	--	NM	--	NM	--	NM	--
YP-S-7	7	2014	NA	--	NM	--	0.782	--	2.7	--	6.5	--	13.3	--	23	--	NM	--	NM	--	NM	--
YP-S-7	8	2014	NA	--	0	--	0.844	--	1.8	--	7.2	--	10.2	--	8.8	--	163	--	58.3	--	< 2.0	U
YP-S-7	11	2014	NA	--	0	--	0.902	--	1.7	--	7.2	--	6.6	--	30	--	162	--	2.8	J	13.1	J
YP-S-7	2	2015	NA	--	0	--	0.819	--	1.8	--	7.3	--	6.1	--	2.8	--	150	--	16.2	--	< 2.0	U
YP-S-7	5	2015	NA	--	0	--	0.787	--	3.6	--	7.0	--	11.8	--	20	--	163	--	23.5	--	< 2.0	U
YP-S-7	8	2015	NA	--	0	--	0.970	--	1.0	--	7.1	--	9.6	--	129	--	164	--	135	--	3.1	--
YP-S-7	11	2015	NA	--	0	--	0.600	--	1.7	--	7.1	--	5.2	--	306	--	157	--	148	--	2.4	--

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-S-7

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.18	--	112	--	41.8	--	5890	--	5280	--	2000	--	67.7	--	42.3	--	0.03	--	< 0.02	U	156	--	< 10.0	U	13.3	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.216	--	52.4	J	29.2	--	3730	--	5030	--	2990	--	60.6	--	46.1	--	< 0.02	U	< 0.02	U	161	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.23	--	53.5	--	45.2	--	3430	--	3780	--	3420	--	49.4	--	46.7	--	< 0.02	U	< 0.02	U	162	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.167	--	50.5	--	41	--	991	--	2540	--	1920	--	42.9	--	38	--	< 0.02	U	< 0.02	U	159	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.165	--	755	--	88.1	--	4110	--	15400	--	2510	--	181	--	48.1	--	0.18	--	< 0.02	U	161	--	31	J+	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.185	--	185	--	45.4	--	4800	--	8780	--	2480	--	95.1	--	50.2	--	0.02	--	< 0.02	U	162	--	22.7	J+	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.108	--	127	--	15.7	--	6890	--	48600	--	583	--	355	--	28	--	0.05	J+	< 0.02	U	198	J	21.8	J+	< 20	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.096	--	161	--	125	--	1980	--	4410	--	1560	--	62.1	--	32.1	--	0.02	--	< 0.02	U	157	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.195	--	945	J	49.9	--	5130	--	17600	--	2650	--	215	--	49.5	--	0.21	--	< 0.02	U	163	--	23	J+	< 20.0	U
0.203	--	105	J	77.5	--	2750	--	3430	J	2810	--	47.6	J	41.8	--	< 0.02	U	< 0.02	U	162	--	21.1	J+	< 20.0	U
< 0.050	U	406	--	380	--	104	--	2630	--	485	--	29.4	--	12.8	--	< 0.02	U	< 0.02	U	150	--	< 20.0	U	< 20.0	U
0.17	--	228	--	43.7	--	5210	--	24500	--	1620	--	692	--	41.1	--	0.16	--	< 0.02	U	163	--	33.4	J+	< 20.0	U
0.187	--	9.19	--	66	--	5400	--	17400	--	4300	--	221	--	68	--	0.373	--	< 0.02	U	164	--	25.2	J+	< 21.3	U
0.228	--	1760	--	84.8	--	4680	--	24400	--	3600	--	240	--	43	--	0.39	--	< 0.02	U	157	--	24.1	--	< 20	U

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	102000	--	99500	--	< 9.0	U	127	--	0.5	J+	0.5	J+	5.66	--	5.38	--	0.3	J+	0.2	J+	0.0223	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	106000	--	107000	--	< 9.0	U	148	--	< 0.2	U	< 0.2	U	6.13	--	6.49	--	< 0.1	U	< 0.1	U	0.02	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	103000	--	103000	--	< 9.0	U	135	--	< 0.2	U	< 0.2	U	6	--	6.04	--	0.5	J+	0.5	J+	0.0227	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	88100	--	85700	--	< 9.0	U	75.5	--	< 0.2	U	< 0.2	U	4.25	J+	4.24	J+	< 0.1	U	0.3	J+	0.0273	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	106000	--	95800	--	< 9.0	U	122	--	1.2	J+	< 0.2	U	5.92	--	6.16	--	0.7	J+	0.7	J+	0.0341	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	102000	--	97900	--	< 15	U	128	--	0.2	J+	< 0.2	U	6.03	--	5.91	--	0.2	J+	< 0.1	U	0.0131	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	112000	--	94000	J	< 15	U	126	--	0.6	J+	< 0.2	U	5.69	--	5.1	--	0.5	J+	0.3	J+	0.0299	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	80900	--	79800	--	< 15	U	70.9	--	0.3	J+	< 0.2	U	3.89	J+	3.59	J+	0.2	J+	< 0.1	U	0.0208	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	102000	--	89200	--	< 15	U	104	--	1.1	J+	< 0.2	U	5.36	J	5.3	--	1.1	J+	0.3	J+	0.0237	--
< 0.02	U	0.03	J+	101000	--	101000	--	< 15	U	123	--	< 0.2	U	< 0.2	U	5.91	--	5.46	--	0.2	J+	0.3	J+	0.0188	--
< 0.02	U	< 0.02	U	64500	--	62700	--	< 15	U	4.41	--	0.9	J+	0.4	J+	0.99	J+	0.91	J+	0.7	J+	0.6	J+	0.0064	--
< 0.02	U	< 0.02	U	119000	--	82700	--	< 15	U	78.6	--	0.6	J+	< 0.2	U	5.37	--	4.45	--	0.4	J+	< 0.1	U	0.0236	--
< 0.02	U	< 0.02	U	108000	--	104000	--	< 15	U	136	--	2.44	--	< 0.2	U	5.92	--	5.98	--	1.73	--	0.26	--	0.0189	--
< 0.05	U	< 0.02	U	111000	--	93900	--	< 15	U	136	--	4.7	--	< 0.2	U	6.57	--	6.44	--	20.4	--	0.5	J+	0.0096	J+

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	360	--	13500	--	2990	--	0.04	J+	< 0.02	U	26000	--	27300	--	1540	--	1350	--	40.9	--	1.1	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	388	--	12700	--	6440	--	< 0.02	U	< 0.02	U	30000	--	29700	--	1530	--	1510	--	6.2	J	1.2	J+	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	379	--	8680	--	7670	--	< 0.02	U	< 0.02	U	29400	--	30800	--	1450	--	1450	--	< 1.0	U	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	322	--	6870	--	3330	--	< 0.02	U	< 0.02	U	24600	--	24500	--	1200	--	1170	--	2.1	--	1.1	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	374	--	63900	--	3630	--	0.34	J+	< 0.02	U	26600	--	25800	--	1990	--	1360	--	345	--	1.2	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	365	--	23000	--	3480	--	0.1	J+	< 0.02	U	27200	--	27200	--	1400	--	1260	--	55	--	< 1.0	U	0.2	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.2	U	395	--	137000	--	238	--	0.09	J+	< 0.02	U	27800	--	26200	--	2190	--	1130	--	172	--	3.6	--	0.1	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.22	--	289	--	10500	--	2540	--	0.06	J+	< 0.02	U	21200	--	21600	--	1100	--	927	--	8.4	--	3.6	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.21	--	366	--	72300	--	771	--	0.35	J+	< 0.02	U	27300	--	25600	--	2420	--	1160	--	34.2	--	1.2	--	< 0.1	U
< 0.20	U	364	--	8200	J	6310	--	< 0.02	U	0.62	J	27100	--	27100	--	1330	--	1350	--	14.1	J	0.88	--	< 0.1	U
< 0.20	U	225	--	5840	--	23	--	0.06	J+	< 0.02	U	15600	--	15500	--	81.9	J-	10.5	J-	51.1	--	7	--	0.2	--
< 0.20	U	403	--	125000	--	1180	--	0.05	J+	< 0.02	U	25600	--	21400	--	3710	--	1040	--	17.1	--	1.1	--	0.2	--
< 0.2	U	390	--	72600	--	8070	--	1	--	< 0.02	U	29400	--	29400	--	2080	--	1440	--	222	--	2.9	--	0.5	--
< 0.2	U	406	--	72400	--	5650	--	1.26	--	< 0.02	U	31400	--	28600	--	1790	--	1270	--	46.9	--	1.2	--	0.1	J

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Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
5.77	--	5.93	--	1	J+	1	J+	< 0.050	U	0.78	--	0.78	--	467	--	< 40.0	UJ	11000	--	11500	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
6.78	J+	7.03	J+	0.4	J+	0.4	J+	< 0.050	U	1.05	--	1.05	J	264	J	22.4	J-	12800	--	12700	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
6.75	--	6.84	--	1.5	J+	1.5	J+	< 0.050	U	0.54	--	0.54	--	182	--	45.9	--	12800	--	13400	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
6.15	--	6.2	--	0.39	J+	0.8	J+	< 0.050	U	0.47	--	0.47	--	158	--	< 40.0	U	10700	--	10800	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
6.25	--	6.73	--	1.28	--	0.42	--	< 0.050	U	2.02	J+	2.02	J+	3210	--	< 40.0	U	11700	--	11100	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
7.34	--	7.15	--	0.46	J+	0.26	J+	< 0.050	U	5.48	--	5.48	--	785	--	< 80.0	UJ	11900	--	11900	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
6.06	J+	5.62	J+	1.3	J+	1	J+	< 0.05	U	2.01	--	2.01	--	4790	--	< 40	UJ	12000	--	11400	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
5.92	--	5.93	--	0.5	J+	0.4	J+	< 0.050	U	1.46	--	1.46	--	377	--	< 40.0	U	9620	--	9750	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.65	--	5.51	--	2.5	J+	1.5	J+	< 0.50	UJ	2.96	J	2.96	J	3040	--	< 40.0	U	12000	--	10900	--	< 1.0	UJ	< 1.0	UJ
6.28	--	6.24	--	1.1	J+	1	J+	< 0.050	U	0.71	J-	0.7	J-	154	J	41.5	--	11300	--	11400	--	< 1.0	U	< 1.0	U
7.17	--	6.82	--	0.2	J+	0.2	J+	0.441	--	1.43	J+	0.99	J+	263	--	< 40.0	U	5890	--	5600	--	< 1.0	U	< 1.0	U
4.49	--	6.29	--	1.5	--	0.3	J+	< 0.050	U	< 0.45	U	< 0.40	U	2660	--	< 40.0	U	11300	--	9400	--	< 1.0	U	< 1.0	U
6.51	J+	6.66	J+	3.24	--	1.04	--	< 0.05	U	2.24	--	2.24	--	4420	--	62.9	--	12500	--	12600	--	< 1	U	< 1	U
7.92	--	7.48	--	2.9	J+	1.6	J+	< 0.05	U	1.38	J+	1.37	J+	5410	--	< 40	U	13700	--	12500	--	< 2.5	U	< 1	UJ

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.04	U	< 0.04	U	26300	--	27600	--	515	--	66.5	--	88.5	--	< 0.02	U	< 0.02	U	0.4	--	< 0.2	U	2.1	J+	1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	31600	--	31200	--	544	--	44.5	--	91.3	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	1.3	J+	1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	29200	--	30700	--	549	--	18.5	--	94.4	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.2	J+	1.4	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	23000	--	22900	--	427	--	17	--	94	--	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	1.7	J+	1.5	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	26100	--	25700	--	520	--	112	--	94	--	0.027	--	< 0.020	U	2	--	< 0.2	U	12.6	--	1.4	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	28600	--	28900	--	493	--	43	--	94.5	--	< 0.02	U	< 0.02	U	0.6	--	< 0.2	U	3.6	J+	0.9	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	26500	--	25800	--	518	J	269	--	89.5	--	< 0.02	U	< 0.02	U	1	--	< 0.2	U	3.5	J+	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	20200	--	19800	--	426	--	53	--	99.4	--	< 0.02	U	< 0.02	U	0.4	--	< 0.2	U	1.9	J+	0.6	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.10	U	0.03	J+	25300	--	24400	--	447	--	149	--	92.7	--	< 0.02	U	< 0.02	U	2.1	--	< 0.2	UJ	14.1	--	0.6	J+
< 0.02	U	< 0.02	U	28200	--	28100	--	546	--	13.5	--	91.6	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.1	J+	1660	J
< 0.02	U	< 0.02	U	3160	--	3070	--	260	J	34	--	69.6	--	< 0.02	U	< 0.02	U	0.4	--	< 0.2	U	0.9	J+	< 0.5	U
< 0.02	U	< 0.02	U	22700	--	21000	--	438	--	480	--	95	--	< 0.02	U	< 0.02	U	1	--	< 0.2	U	16	--	0.5	J+
< 0.02	U	< 0.02	U	29900	--	30700	--	541	--	196	--	93.5	--	0.039	J+	< 0.02	U	4.11	--	< 0.2	U	22.3	--	1.2	J+
< 0.05	U	< 0.02	U	32800	--	29700	--	540	--	123	--	85.4	--	< 0.05	U	< 0.02	U	4.7	--	< 0.2	U	24.9	--	1.7	J+

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Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-S-8	5	2012	2.7E-02	--	0	--	NM	--	2.2	--	NM	--	7.0	--	19	--	117	--	11.7	--	2.1	--
YP-S-8	6	2012	9.5E-02	--	NM	--	0.548	--	1.4	--	7.2	--	7.7	--	12	--	NM	--	NM	--	NM	--
YP-S-8	7	2012	4.7E-03	--	NM	--	0.561	--	0.9	--	7.0	--	10.9	--	9.6	--	NM	--	NM	--	NM	--
YP-S-8	8	2012	3.1E-03	--	0	--	0.583	--	1.3	--	7.3	--	8.1	--	23	--	136	--	7.5	--	2.5	J+
YP-S-8	9	2012	2.1E-02	--	NM	--	0.596	--	0.6	--	7.1	--	7.5	--	2.1	--	NM	--	NM	--	NM	--
YP-S-8	10	2012	3.1E-03	--	NM	--	0.568	--	0.9	--	7.1	--	6.5	--	36	--	NM	--	NM	--	NM	--
YP-S-8	11	2012	6.2E-03	--	0	--	0.682	--	0.6	--	6.8	--	6.8	--	9.2	--	145	--	3.1	--	< 2.0	U
YP-S-8	1	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-8	2	2013	1.2E-02	--	0	--	0.585	--	0.9	--	7.3	--	6.1	--	9.9	--	136	--	12.7	--	< 2.0	U
YP-S-8	3	2013	1.0E-02	--	NM	--	0.571	--	0.7	--	7.3	--	6.1	--	2	--	NM	--	NM	--	NM	--
YP-S-8	4	2013	3.8E-03	--	NM	--	0.538	--	1.0	--	7.0	--	6.7	--	4.1	--	NM	--	NM	--	NM	--
YP-S-8	5	2013	1.7E-02	--	0	--	0.546	--	1.2	--	7.0	--	7.4	--	0.3	--	125	--	2.1	--	< 2.0	UJ
YP-S-8	6	2013	3.9E-03	--	NM	--	0.540	--	1.1	--	6.8	--	6.9	--	1.5	--	NM	--	NM	--	NM	--
YP-S-8	7	2013	7.0E-03	--	NM	--	0.655	--	1.0	--	6.9	--	9.1	--	5.5	--	NM	--	NM	--	NM	--
YP-S-8	8	2013	6.9E-03	--	0	--	0.570	--	1.2	--	7.1	--	7.7	--	4.3	--	142	--	3.2	--	2.9	--
YP-S-8	9	2013	1.7E-03	--	NM	--	0.680	--	0.8	--	7.1	--	8.0	--	16	--	NM	--	NM	--	NM	--
YP-S-8	10	2013	1.7E-03	--	NM	--	0.661	--	1.0	--	7.1	--	7.0	--	2.2	--	NM	--	NM	--	NM	--
YP-S-8	11	2013	9.4E-04	--	0	--	0.564	--	1.2	--	7.1	--	6.8	--	7.1	--	150	--	8.6	--	< 2.0	U
YP-S-8	12	2013	3.1E-03	--	NM	--	0.565	--	1.7	--	7.2	--	5.1	--	17	--	NM	--	NM	--	NM	--
YP-S-8	1	2014	3.4E-03	--	NM	--	0.561	--	1.5	--	6.8	--	6.0	--	13	--	NM	--	NM	--	NM	--
YP-S-8	2	2014	2.2E-02	--	0	--	0.560	--	2.3	--	6.6	--	5.7	--	201	--	139	--	4.6	J+	< 2	U
YP-S-8	3	2014	2.2E-03	--	NM	--	0.567	--	1.6	--	7.2	--	5.7	--	2.6	--	NM	--	NM	--	NM	--
YP-S-8	4	2014	3.4E-03	--	NM	--	0.445	--	2.7	--	7.2	--	5.8	--	2.1	--	NM	--	NM	--	NM	--
YP-S-8	5	2014	8.4E-03	--	0	--	0.515	--	1.2	--	6.8	--	7.3	--	1.1	--	123	--	< 2.0	U	< 2.0	U
YP-S-8	6	2014	5.0E-02	--	NM	--	0.547	--	1.6	--	6.5	--	7.3	--	1.6	--	NM	--	NM	--	NM	--
YP-S-8	7	2014	7.0E-03	--	NM	--	0.625	--	0.5	--	6.7	--	6.9	--	5.6	--	NM	--	NM	--	NM	--
YP-S-8	8	2014	5.9E-03	--	0	--	0.651	--	0.5	--	7.1	--	7.4	--	2.1	--	140	--	11.4	J	11.4	J
YP-S-8	11	2014	NA	--	0	--	0.550	--	0.8	--	7.0	--	6.1	--	28	--	136	--	3.8	--	4.3	--
YP-S-8	2	2015	8.3E-04	--	0	--	0.543	--	1.5	--	7.4	--	7.7	--	2.1	--	136	--	16.3	--	2.5	--
YP-S-8	5	2015	7.0E-03	--	0	--	0.624	--	1.0	--	7.0	--	10.0	--	9.4	--	143	--	4.3	--	< 2.0	U
YP-S-8	8	2015	3.8E-03	--	0	--	0.586	--	0.8	--	7.0	--	7.2	--	1.1	--	123	--	19.9	--	2.1	--
YP-S-8	11	2015	3.1E-04	--	0	--	0.542	--	0.7	--	7.0	--	0.1	--	3.9	--	125	--	3.2	--	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

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Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
0.177	--	674	J	326	--	2140	--	2460	--	1700	--	62.5	J+	50.7	J+	< 0.02	U	< 0.02	U	117	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.207	--	451	--	269	--	3040	--	2970	--	2270	--	64	--	55.9	--	< 0.02	U	< 0.02	U	136	--	< 10.0	U	10.5	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.221	--	323	--	249	--	3190	--	3090	--	2870	--	60.8	--	55.2	--	< 0.02	U	< 0.02	U	145	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.23	--	991	--	307	--	2290	--	4080	--	2660	--	80.7	--	54.9	--	0.04	--	< 0.02	U	136	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.188	--	420	--	342	--	1420	--	2060	--	1590	--	60.8	--	54.9	--	< 0.02	U	< 0.02	U	125	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.122	--	307	--	246	--	3120	--	2960	--	2680	--	58.3	--	54	--	< 0.02	U	< 0.02	U	142	--	22.5	J+	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.202	--	837	--	275	--	2430	--	3670	--	2310	--	81.4	--	55.7	--	0.04	--	< 0.02	U	160	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.195	--	513	--	255	--	4160	--	3180	--	2640	--	59.1	--	48.4	--	< 0.02	U	< 0.02	U	139	J	< 20	U	< 20	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.099	--	453	--	386	--	1620	--	1710	--	1620	--	55	--	53.7	--	< 0.02	U	< 0.02	U	123	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.216	--	746	J	353	--	2770	--	3680	J	2530	--	69.5	J	54.7	--	0.02	J+	< 0.02	U	140	--	< 20.0	U	< 20.0	U
0.221	--	458	--	328	--	3290	--	2970	--	2720	--	59.1	--	51.3	--	< 0.02	U	< 0.02	U	136	--	< 20.0	U	< 20.0	U
0.219	--	1700	--	364	--	2660	--	4650	--	2070	--	114	--	52.5	--	0.08	--	< 0.02	U	136	--	21.9	--	25.1	--
0.188	--	376	--	258	--	2400	--	2860	--	2390	--	59.4	--	53.1	--	< 0.02	U	< 0.02	U	143	--	< 20.0	U	< 20.0	U
0.166	--	1480	--	339	--	2570	--	4260	--	2400	--	85.3	--	47.9	--	0.042	--	< 0.02	U	123	--	< 20	U	< 21.3	U
0.235	--	505	--	391	--	2990	--	2980	--	2860	--	58	--	51.9	--	< 0.02	U	< 0.02	U	125	--	< 20	U	< 20	U

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Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	60900	--	60600	--	< 9.0	U	29.2	--	0.3	J+	< 0.2	U	2.34	J+	2.35	J+	0.2	--	0.1	J+	0.0294	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	76400	--	76600	--	< 9.0	U	60.7	--	< 0.2	U	< 0.2	U	3.34	J+	3.17	J+	0.2	J+	0.2	J+	0.0181	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	74600	--	75900	--	< 9.0	U	63.3	--	< 0.2	U	< 0.2	U	3.26	J+	3.49	J+	< 0.1	U	< 0.1	U	0.0188	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	68500	--	64200	--	< 9.0	U	41.3	--	< 0.2	U	< 0.2	U	2.83	J+	2.86	J+	0.4	J+	0.3	J+	0.0198	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	65900	--	66500	--	< 9.0	U	34.2	--	< 0.2	U	< 0.2	U	2.41	J+	2.36	J+	< 0.1	U	0.2	J+	0.0386	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	75000	--	73800	--	< 9.0	U	64.4	--	< 0.2	U	< 0.2	U	3.51	J+	3.41	J+	< 0.1	U	< 0.1	U	0.0231	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	66200	--	63900	--	< 15	U	37.7	--	< 0.2	U	< 0.2	U	2.69	J+	2.75	J+	< 0.1	U	< 0.1	U	0.0203	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	66200	--	67300	J	< 15	U	42.9	--	< 0.2	U	< 0.2	U	2.63	J+	2.62	J+	0.2	J+	0.2	J+	0.0175	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	63300	--	62600	--	< 15	U	31.4	--	< 0.2	U	< 0.2	U	2.62	J+	2.46	J+	< 0.1	U	< 0.1	U	0.0321	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	73600	--	70900	--	< 15	U	59.6	--	0.2	J+	< 0.2	U	3.39	--	3.37	--	0.4	J+	0.3	J+	0.0161	--
< 0.02	U	< 0.02	U	65400	--	63800	--	< 15	U	35.6	--	< 0.2	U	< 0.2	U	2.59	--	2.43	--	0.1	J+	0.1	J+	0.0128	--
< 0.02	U	< 0.02	U	66500	--	64800	--	< 15	U	33	--	0.2	J+	< 0.2	U	2.72	--	2.69	--	0.2	J+	0.2	J+	0.0134	--
< 0.02	U	< 0.02	U	68700	--	68200	--	< 15	U	45.5	--	0.3	J+	< 0.2	U	3.31	--	3.22	--	< 0.1	U	< 0.1	U	0.0226	--
< 0.02	U	< 0.02	U	57700	--	59000	--	< 15	U	30.9	--	0.24	--	< 0.2	U	2.33	--	2.25	--	0.33	--	0.17	--	0.0175	--
< 0.02	U	< 0.02	U	57000	--	54500	--	< 15	U	30	--	< 0.2	U	< 0.2	U	2.47	--	2.49	--	0.3	J+	0.3	J+	< 0.0047	U

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	205	--	16300	J	6430	--	0.07	J+	< 0.02	U	13000	--	13000	--	914	--	903	--	9.4	J	2.5	J	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	260	--	9640	--	5880	--	0.04	J+	< 0.02	U	16800	--	17800	--	1190	--	1190	--	2.8	--	1.3	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	257	--	8880	--	7560	--	< 0.02	U	< 0.02	U	17200	--	17200	--	1160	--	1190	--	3.4	--	1.4	J+	0.12	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	238	--	14700	--	7670	--	0.11	--	< 0.02	U	16100	--	15900	--	1130	--	1060	--	7.4	--	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	224	--	8350	--	4970	--	0.03	--	< 0.02	U	14500	--	14700	--	936	--	949	--	4.5	--	1.7	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	257	--	8680	--	6400	--	< 0.02	U	< 0.02	U	16800	--	16600	--	1140	--	1130	--	3.1	--	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	226	--	13300	J	5950	--	0.06	J+	< 0.02	U	14700	--	14200	--	1020	--	965	--	33.6	J	2.5	J	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.2	U	226	--	11100	--	7680	--	< 0.02	U	< 0.02	U	14800	--	15100	--	1050	--	1020	--	36.5	--	< 1	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	211	--	7990	--	7310	--	0.03	J+	0.03	J+	12800	--	12800	--	952	--	931	--	4.6	--	2	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	257	--	13500	J	6890	--	0.16	J+	< 0.02	U	17900	--	17100	--	1120	--	1050	--	34.9	J	1.4	--	< 0.1	U
< 0.20	U	222	--	9600	--	8040	--	0.02	J+	< 0.02	U	14200	--	13900	--	999	--	973	--	12.9	--	1.31	--	< 0.1	U
< 0.20	U	226	--	19000	--	5620	--	0.15	J+	< 0.02	U	14700	--	14400	--	1020	--	960	--	7.4	--	0.9	--	< 0.1	U
< 0.20	U	239	--	9190	--	6630	--	0.02	J+	< 0.02	U	16400	--	16300	--	1040	--	1040	--	5.9	--	1.2	--	< 0.1	U
< 0.2	U	200	--	16800	--	6860	--	0.131	J+	< 0.02	U	13600	--	13500	--	916	--	894	--	29.4	--	1.2	--	< 0.1	U
< 0.2	U	198	--	9240	--	7810	--	0.04	J+	< 0.02	U	13600	--	12900	--	913	--	883	--	5.88	--	1.3	--	< 0.1	U

YP-S-8

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
3.99	--	3.91	--	1.2	J+	1.1	J+	< 0.050	U	0.47	--	0.47	J+	819	J-	< 20.0	UJ	5020	--	4990	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.47	--	4.44	--	1.2	J+	1.2	J+	< 0.050	U	< 0.40	U	< 0.40	U	268	--	< 40.0	UJ	6650	--	7070	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
5.42	J+	5.29	J+	0.8	J+	0.9	J+	< 0.050	U	0.52	--	0.52	--	174	--	< 20.0	UJ	7240	--	7250	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.44	--	4.49	--	1.6	J+	1.6	J+	< 0.050	U	0.6	--	0.6	--	632	--	27.7	J+	6540	--	6600	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.18	--	4.23	--	0.87	J+	0.85	J+	< 0.050	U	0.67	--	0.67	--	144	--	< 40.0	U	5530	--	5600	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
5.32	--	5.32	--	0.68	--	0.74	--	< 0.050	U	0.73	J+	0.73	J+	173	--	< 40.0	U	7040	--	6880	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.74	--	4.72	--	0.9	J+	0.8	J+	< 0.050	U	1.17	--	1.17	J	605	--	< 80.0	UJ	5900	--	5700	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.36	J+	4.32	J+	1.2	J+	1.3	J+	< 0.05	U	1.02	--	1.02	--	348	--	< 40	UJ	6270	--	6280	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
3.91	--	3.84	--	0.8	J+	0.8	J+	< 0.050	U	1.22	--	1.22	--	128	--	56.2	--	4640	--	4640	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
4.55	--	4.62	--	1.7	J+	1.6	J+	< 0.050	U	0.59	--	0.59	--	543	J	88.9	J	7200	--	6930	--	< 1.0	UJ	< 1.0	UJ
4.16	--	4.32	--	1.3	J+	1.2	J+	< 0.050	U	0.76	--	0.74	J-	245	--	65.6	--	5830	--	5750	--	< 1.0	U	< 1.0	U
5.25	--	5.17	--	1	J+	0.9	J+	< 0.050	U	0.55	J+	0.55	J+	1420	--	< 40.0	U	5810	--	5710	--	< 1.0	U	< 1.0	U
5.17	--	4.93	--	0.8	J+	0.8	J+	< 0.050	U	0.55	--	0.55	--	213	--	< 40.0	U	6820	--	6840	--	< 1.0	U	< 1.0	U
4.28	J+	4.28	J+	1.29	--	1.06	--	< 0.05	U	1.23	--	1.23	--	1010	--	49.5	--	5600	--	5540	--	< 1	U	< 1	U
4.7	--	4.68	--	1.5	J+	1.5	J+	< 0.05	U	0.64	J+	0.64	J+	265	--	81	--	5560	--	5270	--	< 1	UJ	< 1	UJ

YP-S-8

Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.02	U	< 0.02	U	11700	--	11900	--	291	J	20	--	63.3	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	0.9	J+	0.9	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.04	U	< 0.04	U	17300	--	18200	--	348	--	24	--	69.4	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.8	J+	1.7	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	17800	--	17900	--	353	--	17.5	--	66.9	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.8	J+	0.9	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	15600	--	15600	--	310	--	17.5	--	57.8	--	< 0.02	U	< 0.02	U	0.3	--	< 0.2	U	1.5	J+	1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	12400	--	12600	--	301	--	27	--	76.6	J	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	0.8	J+	1.5	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	17400	--	16900	--	375	--	16.5	--	68.9	--	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	0.7	J+	1.1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	14100	--	13700	--	297	--	85	J	61.9	--	< 0.02	U	< 0.02	U	0.3	--	< 0.2	U	1.1	J+	1.1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	14500	--	14600	--	304	J	83	--	56.5	--	< 0.02	U	< 0.02	U	0.2	J+	< 0.2	U	0.7	J+	1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	10800	--	10800	--	290	--	12.5	--	82.8	--	< 0.02	U	0.02	--	< 0.2	U	< 0.2	U	0.6	J+	0.8	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.04	J+	0.03	J+	17700	--	17000	--	< 10	UJ	21	J	72.9	--	0.02	J+	< 0.02	U	0.3	J	< 0.2	UJ	1.4	J+	0.8	J+
< 0.02	U	< 0.02	U	13700	--	13500	--	319	--	11.5	--	56.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.8	J+	1	J+
< 0.02	U	< 0.02	U	12200	--	12000	--	293	J	31.5	--	69.2	--	0.03	--	< 0.02	U	0.5	--	< 0.2	U	1.9	J+	1.9	J+
< 0.02	U	< 0.02	U	16700	--	16600	--	352	--	15.5	--	72	--	< 0.02	U	< 0.02	U	0.3	--	< 0.2	U	1.4	J+	0.6	J+
< 0.02	U	0.024	--	12900	--	12400	--	279	--	158	--	56.7	--	< 0.02	U	< 0.02	U	0.49	--	< 0.2	U	1.7	J+	0.8	J+
< 0.02	U	< 0.02	U	12800	--	11800	--	262	--	19	--	51.5	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	2.1	J+	1.6	J+

Exhibit 7 - Photos of Keyway Marsh Discharging into Meadow Creek

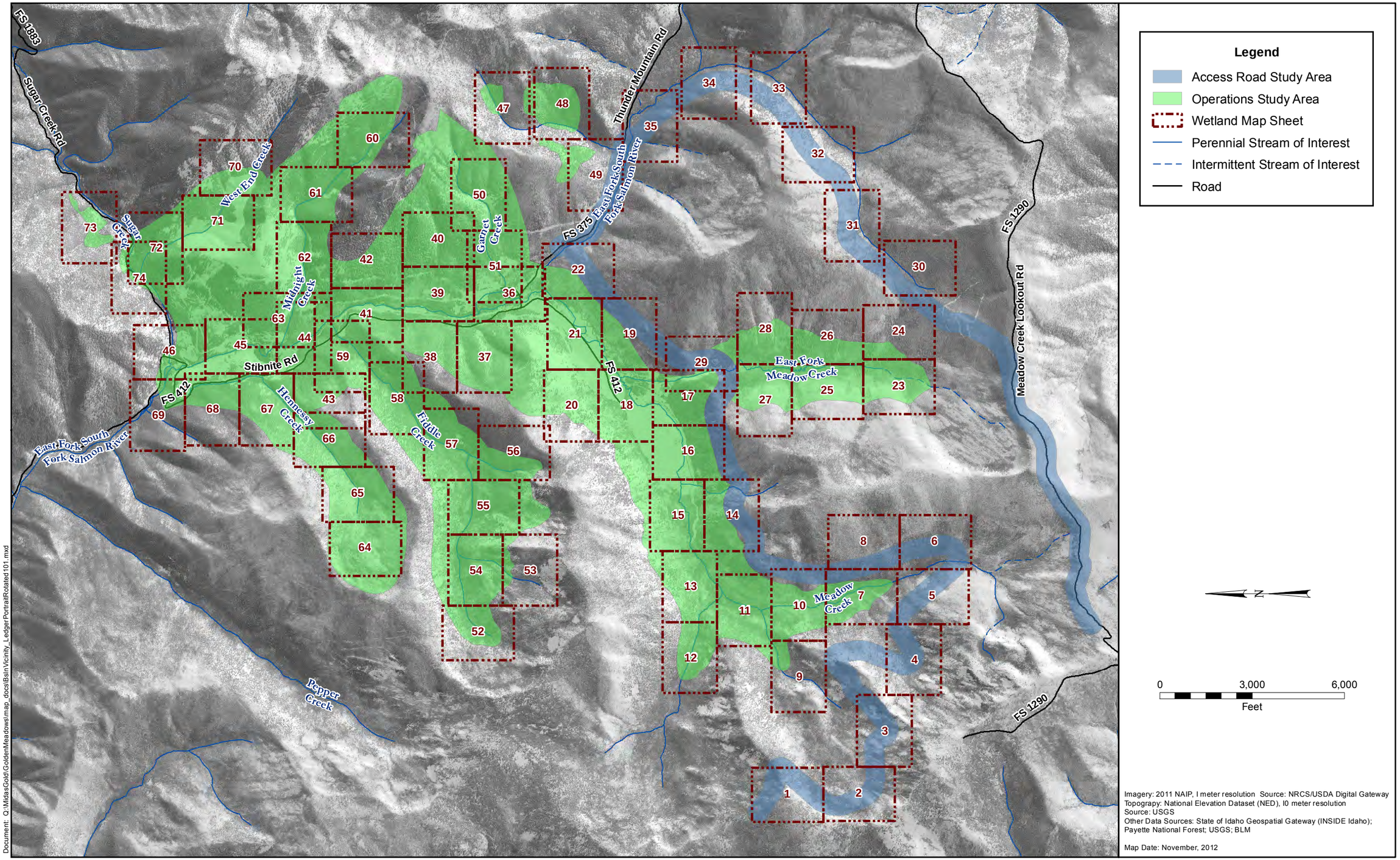
"The Keyway Marsh drains to the Keyway Marsh Outlet site (YP-S-10), located at the eastern end of the marsh complex downgradient from the Keyway Dam (see photos in Appendix G). From the YP-S-10 sample site, water flows into two channels, one to the north and one to the south. Both channels flow directly into Meadow Creek upstream of YP-T-27. The marsh and channels generally flow year-round, but there can be substantial ice-buildup at the outlets that prevents flow into Meadow Creek in the colder months." (Surface Water Quality Baseline Study, pg. 4-72)

Figure 7A. Photo of the Keyway Marsh from Outlet (YP-S-10) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 17. Photo caption reads, "YP-S-10, Keyway Marsh outlet. Looking west and upstream from sampling site towards Keyway Dam. May 2013."

Figure 7B. Photo of the southern Keyway Marsh outlet (YP-S-10) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 17. Photo caption reads, “YP-S-10, Keyway Marsh outlet. Close-up looking east and downstream at south channel flowing into Meadow Creek (flows downstream to left). May 2013.”

Figure 7C. Photo of the northern Keyway Marsh outlet (YP-S-10) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 18. Photo caption reads, "YP-S-10, Keyway Marsh outlet. Looking east and downstream at north channel flowing into Meadow Creek (flows downstream to left). May 2013."

Exhibit 7(A)



Wetlands Index Map
Stibnite Gold Project

Exhibit 7(B)

630600.000000 630700.000000 630800.000000 630900.000000 631000.000000 631100.000000 631200.000000

4972800.000000 4972700.000000 4972600.000000 4972500.000000 4972400.000000

Matchline Meadow Creek Sheet 20

Township 18 North
Range 09 East
Section 15

MC-103
0.14 ac.

HF-1B HF-1A

FS 412

MC-105
0.13 of 1.06 ac.

MGII

Stibnite Rd

OHWM
Width = 2 ft.
Depth = .5 ft.

PAF

Stibnite Rd

OHWM
Width = 1 ft.
Depth = 1 ft.

FS 412

MC-90

MC-100
0.84 of 26.44 ac.

MC-100
1.44 of 26.44 ac.

MC-97
0.08 ac.

MC-96
0.52 of 0.52 ac.

MC-1B

MC-1C

MC-1A

MC-98
0.05 ac.

MC-2A

MC-99
3.07 of 3.07 ac.

MC-17B

MC-89

MC-17A

MC-104
0.90 of 2.02 ac.

MC-17C

MC-104
0.01 of 2.02 ac.

MC-88

Meadow Creek

MC-104
0.07 of 2.02 ac.

MGII

Surface water
connection to
Meadow Creek

MC-95
0.32 ac.

OHWM
Width = 10 ft.
Depth = 1.5 ft.

OHWM
Width = 8 ft.
Depth = 2 ft.

OHWM
Width = 15 ft.
Depth = 2 ft.

East Fork Meadow Creek

MC-90
0.02 of 1.60 ac.

Matchline Meadow Creek Sheet 17

No Adjacent Sheet

Matchline Meadow Creek Sheet 19

Document: Q:\MidasGold\GoldenMeadows\map_docs\BsinWetlandsMapbook_LedgerLand_2012Final_04292014_u2016NameChange.mxd

Legend

- Stream Reach
- Stream
- Culvert
- Spring/Seep
- Soil Pit
- Ordinary High Water Mark Photo Location
- Area Not Part of Wetland Study Area
- Private Property (Midas Gold Idaho, Inc.)

Delineation

- Open Water

Wetland Type

- Emergent
- Forested
- Scrub Shrub
- Matchline

Owner/Applicant: Midas Gold Idaho Inc.

Wetlands Location
Township 18 North, Range 09 East
Section 15

Valley County, Idaho

MGII = Midas Gold Idaho, Inc.
PAF = Payette Administrative Forest
MC = Meadow Creek
HF = Hangar Flats

Note: Wetland delineation fieldwork conducted August through September, 2011 and June through August, 2012. Delineation was limited to the wetland study area.

N

0 200 400
Feet

Imagery: 2009 I/3 meter resolution Source: Midas Gold Idaho, Inc.
Topography: From LiDAR/Imagery Flight, Flown November 2011; C.I. = 2m
Source: Midas Gold Idaho, Inc.
Other Data Sources: State of Idaho Geospatial Gateway (INS DE Idaho); Payette National Forest; USGS; BLM

Map Date: November 28, 2016

Exhibit 8 - Keyway Marsh Outlet Data

Table 8A. Summary statistics of data obtained from the Keyway Marsh Outlet (YP-S-10) (Surface Water Quality Baseline Study, Appendix E, pages 105-110). Data was collected from 2012 to 2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)												
µg/L	**Aluminum**		**Antimony**		**Arsenic**		**Cyanide**	**Iron**		**Manganese**		**Mercury, ng/L**
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**
Keyway Marsh Outlet (YP-S-10)												
Minimum	0.0	2.5	11.5	19.5	27.2	36.3	0.0	0.0	59.9	13.3	24.5	1.7
Maximum	29.4	168.0	139.0	135.0	151.0	6540.0	14.8	574.0	43500.0	287.0	3470.0	27.8
Average	3.1	33.5	43.9	50.1	77.8	550.5	5.6	64.7	3394.0	91.8	438.9	9.5
Median	0.0	14.5	41.3	44.0	71.5	130.5	5.2	10.1	313.0	66.7	158.0	6.7
# Samples	16	16	16	16	16	16	16	16	16	16	16	16

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-S-10	5	2012	0.55	--	0	--	NM	--	8.5	--	NM	--	8.9	--	2.6	--	49.6	--	24.7	--	< 2.0	U
YP-S-10	6	2012	0.16	--	NM	--	0.260	--	5.3	--	7.3	--	16.0	--	4.0	--	NM	--	NM	--	NM	--
YP-S-10	7	2012	0.11	--	NM	--	0.351	--	5.8	--	7.1	--	17.1	--	6.3	--	NM	--	NM	--	NM	--
YP-S-10	8	2012	8.8E-02	--	0	--	0.421	--	6.2	--	7.4	--	13.7	--	13	--	106	--	107	--	10.7	J+
YP-S-10	9	2012	5.9E-02	--	NM	--	0.417	--	6.8	--	7.4	--	11.9	--	37	--	NM	--	NM	--	NM	--
YP-S-10	10	2012	7.1E-02	--	NM	--	0.440	--	8.4	--	7.3	--	6.5	--	14	--	NM	--	NM	--	NM	--
YP-S-10	11	2012	0.14	--	0	--	0.428	--	7.8	--	6.9	--	3.2	--	4.8	--	89.8	--	38.5	--	29.4	--
YP-S-10	12	2012	0.11	--	NM	--	0.449	--	9.3	--	7.7	--	1.7	--	8.3	--	NM	--	NM	--	NM	--
YP-S-10	1	2013	4.9E-02	--	NM	--	0.430	--	8.3	--	8.0	--	0.1	--	6.4	--	NM	--	NM	--	NM	--
YP-S-10	2	2013	6.7E-02	--	0	--	0.442	--	7.7	--	7.7	--	0.0	--	11	--	98.4	--	2.5	--	< 2.0	U
YP-S-10	3	2013	0.14	--	NM	--	0.363	--	8.4	--	8.0	--	0.6	--	8.0	--	NM	--	NM	--	NM	--
YP-S-10	4	2013	0.64	--	NM	--	0.300	--	9.0	--	7.3	--	3.0	--	2.1	--	NM	--	NM	--	NM	--
YP-S-10	5	2013	0.60	--	0	--	0.228	--	7.8	--	6.9	--	11.0	--	3.4	--	56	--	73.3	--	4.1	--
YP-S-10	6	2013	0.27	--	NM	--	0.374	--	7.5	--	6.9	--	9.6	--	2.2	--	NM	--	NM	--	NM	--
YP-S-10	7	2013	0.16	--	NM	--	0.230	--	5.1	--	6.9	--	18.4	--	55	--	NM	--	NM	--	NM	--
YP-S-10	8	2013	7.0E-02	--	NM	--	0.489	--	5.8	--	7.4	--	17.7	--	24	--	124	--	7.3	--	< 2.0	U
YP-S-10	9	2013	7.0E-02	--	NM	--	0.475	--	7.3	--	7.2	--	8.7	--	9.2	--	NM	--	NM	--	NM	--
YP-S-10	10	2013	0.19	--	NM	--	0.404	--	7.6	--	7.4	--	7.3	--	7.0	--	NM	--	NM	--	NM	--
YP-S-10	11	2013	0.13	--	0	--	0.430	--	9.0	--	7.7	--	1.6	--	4.1	--	97	--	18.1	--	< 2.0	U
YP-S-10	12	2013	NA	--	NM	--	0.385	--	10.3	--	6.9	--	0.0	--	14	--	NM	--	NM	--	NM	--
YP-S-10	1	2014	4.8E-02	--	NM	--	0.446	--	10.0	--	7.2	--	0.6	--	4.9	--	NM	--	NM	--	NM	--
YP-S-10	2	2014	NA	--	0	--	0.419	--	7.9	--	7.0	--	0.0	--	1.0	--	107	J	2.9	J+	< 2	U
YP-S-10	3	2014	0.10	--	NM	--	0.345	--	7.0	--	7.7	--	0.0	--	87	--	NM	--	NM	--	NM	--
YP-S-10	4	2014	0.384	--	NM	--	0.154	--	9.0	--	7.1	--	3.4	--	1.2	--	NM	--	NM	--	NM	--
YP-S-10	5	2014	0.86	--	0	--	0.271	--	8.5	--	6.9	--	13.4	--	4.3	--	71	--	8.4	--	< 2.0	U
YP-S-10	6	2014	0.27	--	NM	--	0.272	--	3.7	--	6.9	--	17.1	--	2.1	--	NM	--	NM	--	NM	--
YP-S-10	7	2014	0.18	--	NM	--	0.368	--	5.5	--	6.8	--	19.2	--	51	--	NM	--	NM	--	NM	--
YP-S-10	8	2014	0.10	--	0	--	0.452	--	5.5	--	7.3	--	17.4	--	2.9	--	129	--	47	--	< 2.0	U
YP-S-10	11	2014	7.3E-02	--	0	--	0.483	--	9.0	--	7.3	--	0.8	--	6.1	--	107	--	2.7	J+	< 2.0	U
YP-S-10	2	2015	0.19	--	0	--	0.404	--	7.0	--	7.6	--	0.5	--	3.3	--	100	--	3.5	--	2.6	--
YP-S-10	5	2015	0.17	--	0	--	0.360	--	7.0	--	7.2	--	11.3	--	7.8	--	98	--	15.5	--	< 2.0	U
YP-S-10	8	2015	3.2E-02	--	0	--	0.531	--	4.7	--	7.1	--	17.2	--	108	--	150	--	168	--	< 2	U
YP-S-10	11	2015	8.8E-02	--	0	--	0.512	--	9.2	--	7.7	--	0.7	--	11	--	102	--	3.2	--	< 2	U
YP-S-10	2	2016	3.4E-02	--	0	--	0.503	--	7.2	--	7.2	--	5.4	--	77	--	96	--	13.5	--	2.1	--

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-S-10

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	79.3	--	77	--	1.7	--	121	--	92.8	--	8.6	J+	7.3	J+	< 0.02	U	< 0.02	U	49.6	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	36.2	--	15.3	--	6.4	--	431	--	73.9	--	39.2	--	18.8	--	< 0.02	U	< 0.02	U	106	--	< 10.0	U	< 10.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	41.3	--	41.1	--	7.2	--	129	--	111	--	20.7	--	20	--	< 0.02	U	< 0.02	U	89.8	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	46.2	--	46.1	--	1.96	--	51.8	--	40.8	--	17.5	--	17.6	--	< 0.02	U	< 0.02	U	98.4	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	64.2	--	63.5	--	1.48	--	140	--	111	--	10.4	J+	9.1	J+	< 0.02	U	< 0.02	U	56	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	19.5	--	19.2	--	7.2	--	132	--	95.2	--	24.9	--	24.1	--	< 0.02	U	< 0.02	U	124	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	52.8	--	48.2	--	2	--	109	--	44.5	--	20	--	16.9	--	< 0.02	U	< 0.02	U	97	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.05	U	41.7	--	41.5	J	0.64	--	41.4	--	35.1	--	16.8	--	16.7	J	< 0.02	U	< 0.02	U	107	J	< 20	U	< 20	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	135	--	139	--	0.683	--	170	--	150	--	10.3	J+	9.76	J+	< 0.02	U	< 0.02	U	71	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	26.8	--	16.4	--	5.1	--	377	--	119	--	31.6	--	18.2	--	< 0.02	U	< 0.02	U	129	--	< 20.0	U	< 20.0	U
< 0.050	U	31	--	31.7	--	2.8	--	42.4	--	27.2	--	19.4	--	19.3	--	< 0.02	U	< 0.02	U	107	--	< 20.0	U	< 20.0	U
< 0.050	U	49.8	--	50.9	--	1.1	--	47.7	--	36.6	--	15.3	--	15	--	< 0.02	U	< 0.02	U	100	--	< 20.0	UJ	< 20.0	UJ
< 0.050	U	49.7	--	46.3	--	2.6	--	170	--	69.1	--	17.5	--	13	--	< 0.02	U	< 0.02	U	98	--	< 20.0	U	< 20.0	U
< 0.05	U	69.1	--	11.5	--	227	--	6540	--	151	--	119	--	24	--	0.05	--	< 0.02	U	150	--	< 20	U	< 21.3	U
< 0.05	U	27.3	--	27.5	--	1.11	--	36.3	--	29.4	--	16.1	--	15.8	--	< 0.02	U	< 0.02	U	102	--	< 20	U	< 20	U
< 0.05	U	30.9	--	27.4	--	0.24	--	269	--	57.9	--	21.2	--	17.3	--	< 0.02	U	< 0.02	U	95	--	< 20	U	< 20	U

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Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	20300	--	20100	--	< 9.0	U	9.34	--	0.3	J+	< 0.2	U	0.55	J+	0.51	J+	0.4	--	0.4	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	49400	--	48400	--	< 9.0	U	32.9	--	0.2	J+	0.2	J+	2.48	J+	1.6	J+	1	J+	0.3	J+	0.0063	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	45400	--	45300	--	< 9.0	U	38.4	--	0.6	J+	< 0.2	U	1.83	J+	1.7	J+	0.3	--	0.3	--	0.0093	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	47200	--	48200	--	< 9.0	U	36.3	--	< 0.2	U	< 0.2	U	1.88	J+	1.91	J+	0.3	J+	0.3	J+	0.0148	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	24700	--	24000	--	< 9.0	U	10.2	--	< 0.2	U	< 0.2	U	0.65	J+	0.58	J+	0.3	J+	0.7	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	55900	--	55800	--	< 9.0	U	45.5	--	< 0.2	U	< 0.2	U	2.02	J+	1.97	J+	0.3	J+	0.3	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	47400	--	48400	--	< 15	U	30.6	--	< 0.2	U	< 0.2	U	1.89	J+	1.8	J+	0.2	J+	0.2	J+	0.0092	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	48200	--	48800	--	< 15	U	42.4	--	< 0.2	U	< 0.2	U	1.56	J+	1.78	J+	0.3	J+	0.3	J+	0.0141	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	30100	--	29400	--	< 15	U	9.25	--	< 0.2	U	< 0.2	U	0.84	J+	0.83	J+	0.2	J+	0.3	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	55100	--	53700	--	< 15	U	36.8	--	< 0.2	U	< 0.2	U	2.48	--	1.76	J+	0.7	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	54400	--	56700	--	< 15	U	44.6	--	< 0.2	U	< 0.2	U	2.13	--	2.19	--	0.2	J+	0.2	J+	0.0143	--
< 0.02	U	< 0.02	U	45300	--	46300	--	< 15	U	22.9	--	< 0.2	U	< 0.2	U	1.62	--	1.59	--	0.2	J+	0.2	J+	0.0112	--
< 0.02	U	< 0.02	U	41800	--	42400	--	< 15	U	20.9	--	< 0.2	U	< 0.2	U	1.34	J+	1.2	J+	0.3	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	66100	--	62600	--	< 15	U	46.2	--	0.51	--	< 0.2	U	5.2	--	2.09	--	1.85	--	0.34	--	0.0056	--
< 0.02	U	< 0.02	U	53500	--	49000	--	< 15	U	43.7	--	< 0.2	U	< 0.2	U	2.01	J+	2.07	J+	0.4	J+	0.4	J+	0.0047	--
< 0.02	U	< 0.02	U	56100	--	53500	--	< 15	U	0.24	--	< 0.2	U	< 0.2	U	2.19	--	2.11	--	0.3	--	0.3	--	< 0.0047	U

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	68.5	--	232	--	< 20.0	U	0.04	J+	< 0.02	U	4310	--	4350	--	51.9	J	13.3	--	13	J	4.8	--	0.11	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	166	--	3210	--	36	--	0.32	J+	< 0.02	U	10300	--	11000	--	1150	--	165	--	22.2	--	2.2	--	0.2	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	155	--	702	--	574	--	0.06	J+	0.05	--	10000	--	10400	--	184	--	174	--	6.6	--	11.1	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	167	--	101	--	< 20.0	U	< 0.02	U	< 0.02	U	12000	--	12500	--	57.6	--	53.8	--	2.2	--	1.4	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	83.7	--	293	--	24.1	--	0.07	--	< 0.02	U	5360	--	5240	--	51.3	--	22.2	--	16.9	--	4.6	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	192	--	333	--	< 20.0	U	< 0.02	U	< 0.02	U	12700	--	12700	--	224	--	206	--	18.1	--	2	--	0.1	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	166	--	550	--	< 20.0	U	0.04	J+	< 0.02	U	11600	--	11800	--	195	--	73.8	--	6.8	--	1.7	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.2	U	169	--	59.9	--	< 20	U	< 0.02	U	< 0.02	U	11900	--	12000	--	29.4	--	26	--	2.7	--	1.4	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	103	--	118	--	< 20.0	U	< 0.02	U	< 0.02	U	6840	J	6730	J	24.5	--	14.6	--	6.4	--	4.3	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	189	--	2030	--	50	--	0.3	J+	< 0.02	U	12600	--	12500	--	776	--	105	--	9.1	--	1.9	--	0.2	--
< 0.20	U	192	--	166	--	20.1	--	< 0.02	U	< 0.02	U	13600	--	14400	--	132	--	125	--	2.5	J+	1.1	J+	< 0.1	U
< 0.20	U	160	--	101	--	29.8	--	< 0.02	U	< 0.02	U	11300	--	11300	--	50.2	J-	35.9	J-	2	--	1.4	--	< 0.1	U
< 0.20	U	145	--	943	--	< 20.0	U	0.08	J+	< 0.02	U	9780	--	9950	--	281	--	33.1	--	7.3	--	1.9	--	< 0.1	U
< 0.2	U	228	--	43500	--	47.3	--	0.852	--	< 0.02	U	15400	--	14900	--	3470	--	287	--	27.8	--	1.5	--	0.2	--
< 0.2	U	192	--	94.4	--	< 20	U	< 0.02	U	< 0.02	U	14100	--	13900	--	86.8	--	74.5	--	1.7	--	0.7	--	< 0.1	U
< 0.2	U	200	--	1870	--	254	--	0.06	--	< 0.02	U	14500	--	14700	--	259	--	59.5	--	6.1	--	2.3	--	< 0.1	U

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Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
0.82	--	0.77	--	0.5	J+	0.4	J+	< 0.050	U	0.62	--	0.62	J+	< 20.0	UJ	< 20.0	UJ	1940	--	1990	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.77	--	1.46	--	1.3	J+	0.7	J+	< 0.050	U	0.4	--	0.4	--	94.2	J-	< 40.0	UJ	3980	--	4230	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.14	J+	1.14	J+	0.6	J+	0.3	J+	< 0.050	U	0.73	--	0.73	--	< 20.0	UJ	21.5	J-	4600	--	4780	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.56	--	1.5	--	0.8	J+	0.8	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 20.0	U	< 20.0	U	5120	--	5240	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.09	--	1.05	--	0.31	J+	0.3	J+	0.05	--	0.65	--	0.6	--	< 40.0	U	< 40.0	U	2570	--	2490	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.21	--	2.11	--	0.46	--	0.48	--	< 0.050	U	0.65	J+	0.65	J+	< 40.0	U	< 40.0	U	5990	--	6010	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.33	--	1.28	--	0.33	J+	0.29	J+	< 0.050	U	0.51	--	0.51	--	< 80.0	UJ	< 80.0	UJ	5060	--	5110	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.29	J+	1.19	J+	0.6	J+	0.5	J+	< 0.05	U	< 0.40	U	< 0.4	U	< 40	UJ	< 40	UJ	4980	--	5040	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.68	--	1.54	--	0.3	J+	0.3	J+	< 0.050	U	0.53	J+	0.53	J+	< 40.0	UJ	< 40.0	UJ	2920	--	2970	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.7	--	2.31	--	1.5	J+	1.2	J+	< 0.050	U	0.55	--	0.55	--	89.3	--	< 40.0	U	4890	--	4840	--	< 1.0	UJ	< 1.0	UJ
1.22	--	1.19	--	0.6	J+	0.6	J+	< 0.050	U	0.56	J+	0.55	J+	< 40.0	U	< 40.0	U	5510	--	5830	--	< 1.0	U	< 1.0	U
1.51	--	1.46	--	0.3	J+	0.3	J+	< 0.050	U	0.5	J+	0.5	J+	< 40.0	U	< 40.0	U	4690	--	4510	--	< 1.0	U	< 1.0	U
1.54	--	1.5	--	0.7	J+	0.6	J+	< 0.050	U	0.62	J+	0.62	J+	< 40.0	U	< 40.0	U	4130	--	4160	--	< 1.0	U	< 1.0	U
3.4	J+	2.71	J+	2.53	--	0.82	--	< 0.05	U	1.04	--	1.04	--	899	--	< 42.6	U	6380	--	6240	--	< 1	U	< 1	U
1.31	--	1.32	--	1	J+	1	J+	< 0.05	U	0.58	J+	0.58	J+	< 40	U	< 40	U	5610	--	5600	--	< 1	UJ	< 1	UJ
1.46	--	1.36	--	0.7	--	0.7	--	0.294	--	1.21	--	0.91	J+	47.8	--	< 40	U	5880	--	6050	--	< 1	U	< 1	U

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.02	U	< 0.02	U	5470	--	5550	--	139	J	< 5.0	U	19.2	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.6	J+	0.5	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.04	U	< 0.04	U	11500	--	12400	--	228	--	6	--	31.1	--	< 0.02	U	< 0.02	U	0.5	--	< 0.2	U	2.7	J+	0.6	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	UJ	< 0.02	U	11400	--	11900	--	230	--	7.5	J	40.2	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.9	J+	0.9	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	13000	--	13500	--	225	--	< 5.0	U	39.8	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	0.7	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	5980	--	5860	--	113	--	< 5.0	U	24.3	--	< 0.020	U	< 0.020	U	0.2	--	< 0.2	U	0.8	J+	0.8	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	13700	--	13600	--	273	--	18	--	40.7	--	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	0.6	J+	0.7	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	12100	--	12300	--	226	--	< 5.0	U	44.6	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.8	J+	0.7	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	12800	--	13000	--	239	--	< 5	U	43.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	5340	--	5380	--	139	--	< 5.0	U	36.5	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.10	U	< 0.02	U	12900	--	12900	--	247	--	18	--	34.7	--	< 0.02	U	< 0.02	U	0.4	--	< 0.2	UJ	1.8	J+	< 0.5	U
< 0.020	U	< 0.020	U	13600	--	14300	--	278	--	< 10	U	52.6	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	10100	--	9840	--	241	--	< 5.0	U	50.7	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	10300	--	10500	--	195	--	5.5	--	34.5	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	0.8	J+	< 0.5	U
0.038	--	< 0.02	U	15700	--	15300	--	298	--	344	--	33.8	--	0.024	J+	< 0.02	U	1.94	--	< 0.2	U	9.3	--	0.6	J+
< 0.02	U	< 0.02	U	15000	--	14700	--	261	--	< 5	U	47.4	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	3.2	J+	< 0.5	U
< 0.02	U	< 0.02	U	15300	--	15800	--	116	--	< 5	U	13	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.3	J+	0.9	--

ATTACHMENT - 3

Exhibit 9 - Photos of the Hangar Flats Seeps

"The Smelter Flats seep (YP-S-5) originates on Hangar Flats southwest of the heap leach and on the north side of Hangar Flats road (see photos in Appendix G). During periods of high flow (i.e., snowmelt or storm events), it flows east from the source through a ditch on the north side of Hangar Flats road, crosses under the road via a culvert, through a ditch to the east, and to the sampling site at the west end of the airstrip. From there, flow continues into a series of ponds on the Meadow Creek floodplain. During periods of high flow (i.e., spring snowmelt conditions), Meadow Creek has rise[n] to the level of the floodplain and intermixed with water from the ponds." (Surface Water Quality Baseline Study, pg. 4-76)

Figure 9A. Photo of the Smelter Flats seep (YP-S-5) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 8. Photo caption reads, "YP-S-5, Smelter Flats seep. Looking southwest and downstream at seep flowing into a series of ponds and floodplain of Meadow Creek (back left, flows downstream to left), May 2012."

Figure 9B. Photo of the Smelter Flats seep (YP-S-5) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 8. Photo caption reads, "YP-S-5, Smelter Flats seep. Looking southwest and downstream at inundated floodplain mixing with Meadow Creek (background, flows downstream to left), May 2012."

Figure 9C. Photo of the Smelter Flats seep (YP-S-5) from the Surface Water Quality Baseline Study, Appendix G, July 2012 Site Photos, page 20. Photo caption reads, "YP-S-5, Smelter Flats seep. Looking east at iron-stained seep emerging at edge of Meadow Creek. July 2012."

Figure 9D. Photo of the Smelter Flats seep (YP-S-5) from the Surface Water Quality Baseline Study, Appendix G, July 2012 Site Photos, page 21. Photo caption reads, “YP-S-5, Smelter Flats seep. Close-up, looking east, at iron-stained seep emerging at edge of Meadow Creek. July 2012.”

"The heap leach seep (YP-T-23A) originates from two sources on the southwest corner of the heap leach pile on Hangar Flats (see photos in Appendix G). The northern source begins in a drainage ditch that captures surface flow and intercepts seep flow along the west side of the heap leach pile. The northern source generally flows at low volumes year-round. The western source originates as a seep from the ground west of the north source and north of the heap leach road. The western seep generally only flowed during wet periods (i.e., spring snowmelt and storm events). The sources combine within 35 feet of their origins and flow downstream to the east in a trench along the Hangar Flats road. During periods of high flow (i.e., spring snowmelt or storm events), the flow crosses the Hangar Flats road at the southeast corner of the heap leach pile. From there, flow has continued southeast onto the Meadow Creek floodplain during April 2012 and May 2014 and flowed into Meadow Creek in May 2014. More commonly, it flows through a trench on the north side of the airstrip and eventually, if there enough flow, into the retention basin at the eastern end of the airstrip." (Surface Water Quality Baseline Study, pg. 4-81)

Figure 9E. Photo of the Heap leach seep (YP-T-23A) from the Surface Water Quality Baseline Study, Appendix G, May 2014 Site Photos, page 29. Photo caption reads, "YP-T-23A, Heap leach seep. Looking east and downstream. A portion of the flow is entering a rehabilitated culvert, which daylights on the other side of airstrip. May 2014."

Figure 9F. Photo of the Heap leach seep (YP-T-23A) from the Surface Water Quality Baseline Study, Appendix G, May 2014 Site Photos, page 29. Photo caption reads, "YP-T-23A, Heap leach seep. Looking south and downstream at flow from culvert in previous photo, with trench to convey flow toward sediment basin. May 2014."

Figure 9G. Photo of the Heap leach seep (YP-T-23A) from the Surface Water Quality Baseline Study, Appendix G, May 2014 Site Photos, page 29. Photo caption reads, "YP-T-23A, Heap leach seep. Looking southeast and downstream at sediment basin, with flow going into a wetland area below. May 2014."

Figure 9I. Photo of the Heap leach seep (YP-T-23A) from the Surface Water Quality Baseline Study, Appendix G, May 2014 Site Photos, page 29. Photo caption reads, "YP-T-23A, Heap leach seep. Looking northeast at wetland area and standing water downstream of sediment basin in previous photo. May 2014."

Figure 9J. Photo of the Heap leach seep (YP-T-23A) from the Surface Water Quality Baseline Study, Appendix G, May 2014 Site Photos, page 29. Photo caption reads, “YP-T-23A, Heap leach seep. Looking northeast at downstream at where seep merges with Meadow Creek (flows downstream to the left). May 2014.”

Exhibit 10 - Hangar Flats Seep Data

Table 10A. Summary statistics of data from two seeps emerging from the Hangar Flats Pile: the Smelter Flats Seep (YP-S-5) and the Heap Leach Seep (YP-T-23A) (Surface Water Quality Baseline Study, Appendix E, pages 75-80). Data was collected from Spring of 2012 to February, 2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)														
µg/L	**Aluminum**		**Antimony**		**Arsenic**		**Cyanide**	**Iron**		**Manganese**		**Mercury, ng/L**	**Thallium**	
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**	**Total**
Smelter Flats Seep (YP-S-5)														
Minimum	2.9	56.5	38.5	37.9	817.0	906.0	0.0	0.0	212.0	8.7	28.6	39.9	0.02	0.03
Maximum	19.4	360.0	2840.0	2870.0	1500.0	1590.0	11.8	53.6	1260.0	145.0	154.0	168.0	0.04	0.07
Average	7.8	185.0	1943.7	1933.6	1081.2	1144.2	3.6	30.0	693.4	51.5	63.8	89.0	0.03	0.05
Median	4.2	128.0	2270.0	2210.0	1000.0	1040.0	0.0	30.3	607.0	28.7	35.8	71.9	0.03	0.04
# Samples	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Heap Leach Seep (YP-T-23A)														
Minimum	0.0	11.9	33.0	49.1	324.0	328.0	0.0	0.0	31.1	4.7	10.3	7.5	0.00	0.00
Maximum	51.4	1170.0	4840.0	4920.0	2450.0	5130.0	15.0	6200.0	13400.0	1880.0	3720.0	390.0	0.10	0.33
Average	5.7	240.0	1455.8	1510.4	1022.0	1486.4	4.5	1082.4	2997.9	385.1	669.7	70.1	0.03	0.10
Median	2.3	73.6	999.0	989.0	766.0	980.0	4.8	34.9	1130.0	18.6	81.9	21.4	0.00	0.06
# Samples	13	13	21	21	21	21	9	21	21	13	13	21	9	9

YP-S-5

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-S-5	5	2012	0.19	--	0	--	0.248	--	8.1	--	8.0	--	12.2	--	12	--	77.2	--	56.5	--	4.2	--
YP-S-5	6	2012	1.3E-02	--	NM	--	0.312	--	10.6	--	9.2	--	21.4	--	2.9	--	NM	--	NM	--	NM	--
YP-S-5	7	2012	3.4E-03	--	NM	--	0.097	--	5.1	--	6.6	--	15.9	--	14	--	NM	--	NM	--	NM	--
YP-S-5	8	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	9	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	10	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	11	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	12	2012	7.8E-04	--	NM	--	0.340	--	10.2	--	7.5	--	1.3	--	19	--	NM	--	NM	--	NM	--
YP-S-5	1	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	2	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	3	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	4	2013	3.0E-02	--	NM	--	0.399	--	10.1	--	8.2	--	1.1	--	34	--	NM	--	NM	--	NM	--
YP-S-5	5	2013	1.1E-02	--	0	--	0.420	--	6.3	--	7.3	--	16.3	--	5.3	--	140	--	92.5	--	2.9	--
YP-S-5	6	2013	1.9E-03	--	NM	--	0.296	--	8.4	--	7.9	--	20.8	--	1.9	--	NM	--	NM	--	NM	--
YP-S-5	7	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	8	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	9	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	10	2013	4.0E-03	--	NM	--	0.408	--	5.1	--	7.4	--	7.8	--	11	--	NM	--	NM	--	NM	--
YP-S-5	11	2013	3.9E-02	--	10	--	0.478	--	10.3	--	7.7	--	4.4	--	43	--	82	--	360	--	8.2	--
YP-S-5	12	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	1	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	2	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	3	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	4	2014	NA	--	NM	--	0.275	--	6.2	--	7.0	--	0.8	--	97	--	NM	--	NM	--	NM	--
YP-S-5	5	2014	4.2E-02	--	0	--	0.255	--	7.9	--	7.3	--	19.6	--	9.9	--	92	--	128	--	19.4	J
YP-S-5	6	2014	1.2E-02	--	NM	--	0.437	--	10.1	--	7.5	--	8.5	--	25	--	NM	--	NM	--	NM	--
YP-S-5	7	2014	NA	--	NM	--	0.326	--	13.5	--	9.5	--	27.3	--	38	--	NM	--	NM	--	NM	--
YP-S-5	8	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	11	2014	1.9E-03	--	0	--	0.506	--	9.6	--	7.4	--	3.5	--	62	--	106	--	288	--	4.1	--
YP-S-5	2	2015	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	5	2015	NA	--	0	--	0.260	--	3.4	--	6.7	--	11.8	--	71	--	104	--	3360	--	13300	--
YP-S-5	8	2015	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	11	2015	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-S-5	2	2016	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	2870	- -	2840	- -	31.6	- -	1040	- -	1000	- -	14.9	J+	15.5	J+	< 0.02	U	< 0.02	U	77.2	- -	< 50.0	U	< 50.0	U
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< 0.050	U	37.9	- -	38.5	- -	42.2	- -	1590	- -	1500	- -	19.2	- -	17.7	- -	0.02	- -	< 0.02	U	140	- -	46.6	J+	45.9	J+
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< 0.050	U	2210	- -	2270	- -	3.3	- -	995	- -	919	- -	32	- -	25	- -	0.07	- -	< 0.02	U	82	- -	23.1	J+	< 20.0	U
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< 0.050	U	2760	- -	2820	- -	15.4	- -	1190	- -	1170	- -	10.4	J+	9.35	J+	0.02	- -	< 0.02	U	92	- -	31.5	J+	31.6	J+
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< 0.050	U	1790	- -	1750	- -	4	- -	906	- -	817	- -	33.6	- -	27.3	- -	0.06	- -	< 0.02	U	106	- -	23.6	J+	20.3	J+
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< 0.050	U	1250	- -	2360	- -	213	- -	2950	- -	5540	- -	118	- -	354	- -	0.79	- -	2.67	- -	104	- -	< 20.0	U	21.8	J+
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Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	34300	- -	33400	- -	< 9.0	U	0.56	- -	0.3	J+	0.3	J+	0.3	J+	0.31	J+	1.6	- -	1.3	- -	< 0.010	U
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< 0.02	U	< 0.02	U	57000	- -	57600	- -	< 9.0	U	0.53	- -	0.3	J+	< 0.2	U	0.41	J+	0.33	J+	4.8	- -	4	- -	0.0118	- -
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0.03	J+	< 0.02	U	63500	- -	64400	- -	< 15	U	6.84	- -	0.6	J+	< 0.2	U	1.23	J+	0.84	J+	14.5	- -	12.8	- -	0.0064	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	34700	- -	34000	- -	< 15	U	0.54	- -	0.3	J+	< 0.2	U	0.32	J+	0.25	J+	2.1	- -	1.9	- -	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	75200	- -	74900	- -	< 15	U	2.65	- -	0.6	J+	< 0.2	U	0.91	J+	0.52	J+	8.1	- -	6.9	- -	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.1	J+	0.31	J+	39800	- -	43200	- -	< 15	U	0.87	- -	5.5	- -	18	- -	5.51	- -	13	- -	26.6	- -	57.5	- -	0.0369	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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YP-S-5

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	107	- -	212	- -	23.5	- -	0.25	J+	< 0.02	U	5100	- -	5040	- -	65.6	- -	63.3	- -	39.9	- -	12.7	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.40	U	181	- -	607	- -	42.4	- -	0.21	- -	< 0.02	U	9280	- -	9320	- -	154	- -	145	- -	52.1	- -	17.9	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.20	U	199	- -	1140	- -	30.3	- -	0.88	- -	< 0.02	U	9800	- -	9630	- -	28.6	- -	8.7	J+	168	- -	50.4	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.20	U	107	- -	248	- -	53.6	J	0.18	J+	0.03	J+	4970	- -	4920	- -	35.1	- -	28.7	- -	71.9	- -	25.5	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	234	- -	1260	- -	< 20.0	U	0.91	- -	< 0.02	U	11300	- -	11000	- -	35.8	- -	11.6	- -	113	- -	18.8	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	128	- -	20400	- -	64900	- -	10.6	- -	38.7	- -	6960	- -	11300	- -	1090	- -	2470	- -	11700	- -	1050	- -	6.6	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
1.16	- -	1.16	- -	0.9	J+	0.9	J+	0.081	- -	0.84	- -	0.76	- -	85.3	J+	76.6	J+	2510	- -	2450	- -	1.2	- -	1.9	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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2.37	- -	2.45	- -	1.03	- -	0.89	J+	0.052	- -	0.71	J+	0.66	J+	321	- -	213	- -	6000	- -	6060	- -	2.7	- -	2.7	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.92	- -	4.23	- -	3.03	J+	2.4	J+	0.279	- -	1.31	- -	1.03	- -	417	- -	373	- -	13200	- -	13000	- -	2.5	- -	2.3	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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1.02	- -	1.04	- -	0.9	J+	0.6	J+	< 0.050	U	0.48	J+	0.48	J+	120	- -	107	- -	2430	- -	2400	- -	1.5	- -	1.6	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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2.35	- -	2.64	- -	2.8	J+	2	J+	< 0.050	U	0.86	J	0.84	J	259	- -	215	- -	9810	- -	9500	- -	2.1	- -	2.1	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.63	- -	1.01	- -	8.4	- -	21.1	- -	< 0.050	U	< 0.45	U	< 0.40	U	1260	- -	2370	- -	6030	- -	10900	- -	3.4	- -	8.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
0.06	J+	0.02	J+	6480	- -	6400	- -	148	- -	< 5.0	U	36.9	- -	0.03	J+	0.02	J+	0.7	- -	0.5	- -	16.5	J+	14.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.05	- -	< 0.02	U	8950	- -	9060	- -	245	- -	5.5	- -	48.7	- -	0.034	- -	0.025	- -	1	- -	0.8	- -	12	- -	7.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.17	- -	0.03	- -	10700	- -	10700	- -	303	- -	20	- -	142	- -	0.07	- -	0.04	- -	1.7	- -	0.7	- -	5.5	- -	2.1	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.06	- -	0.02	- -	5640	- -	5800	- -	146	- -	9	J	30.1	- -	0.04	- -	0.03	- -	1.1	- -	1	- -	5.2	J+	2.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.241	J+	0.057	J+	8940	- -	8770	- -	334	- -	< 10	U	144	- -	0.06	J+	0.03	J+	1.4	- -	0.5	- -	4.3	J+	1.4	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.1	- -	8.65	- -	5040	- -	5890	- -	147	- -	131	- -	35.5	- -	0.35	- -	1.34	- -	10.7	- -	30.8	- -	1380	- -	2460	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

YP-T-23A

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-T-23A	4	2012	0.13	--	NM	--	0.338	--	7.2	--	7.2	--	5.7	--	16	--	63.2	J+	NM	--	NM	--
YP-T-23A	5	2012	9.1E-02	--	0	--	0.268	--	6.6	--	7.5	--	9.2	--	4.9	--	55.6	--	644	--	51.4	--
YP-T-23A	6	2012	3.4E-02	--	0	--	0.140	--	5.8	--	6.8	--	13.8	--	10	--	38.1	--	NM	--	NM	--
YP-T-23A	7	2012	8.9E-03	--	NM	--	NM	--	5.6	--	NM	--	13.2	--	1.4	--	31.8	J+	NM	--	NM	--
YP-T-23A	8	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	9	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	10	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	11	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	12	2012	1.3E-03	--	NM	--	0.313	--	11.8	--	7.6	--	1.4	--	5.5	--	68.3	--	NM	--	NM	--
YP-T-23A	1	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	2	2013	2.8E-04	--	0	--	0.331	--	7.7	--	7.6	--	0.4	--	49	--	78.3	--	576	--	< 2.0	U
YP-T-23A	3	2013	8.0E-03	--	NM	--	0.256	--	9.8	--	7.9	--	2.0	--	2.5	--	59.5	--	NM	--	NM	--
YP-T-23A	4	2013	4.0E-02	--	NM	--	0.212	--	8.8	--	7.3	--	6.2	--	4.0	--	54.1	--	NM	--	NM	--
YP-T-23A	5	2013	3.6E-02	--	0	--	0.264	--	5.3	--	6.5	--	10.9	--	3.2	--	64.1	--	11.9	--	2.9	--
YP-T-23A	6	2013	4.4E-03	--	NM	--	0.159	--	4.1	--	6.7	--	11.8	--	30	--	50.6	--	NM	--	NM	--
YP-T-23A	7	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	8	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	9	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	10	2013	2.6E-02	--	NM	--	0.593	--	7.3	--	7.0	--	9.0	--	2.1	--	63.8	--	NM	--	NM	--
YP-T-23A	11	2013	NA	--	0	--	0.670	--	9.3	--	7.1	--	6.0	--	3.6	--	94	--	47.4	--	5	--
YP-T-23A	12	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	1	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	2	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	3	2014	4.2E-03	--	NM	--	0.265	--	9.9	--	7.7	--	1.2	--	14	--	88	J+	192	--	< 10	U
YP-T-23A	4	2014	4.9E-02	--	NM	--	0.350	--	8.6	--	7.0	--	4.0	--	2.1	--	68	--	73.6	--	< 10.0	U
YP-T-23A	5	2014	4.1E-02	--	0	--	0.274	--	7.7	--	6.6	--	7.4	--	1.6	--	62	--	13	--	2.3	--
YP-T-23A	6	2014	1.6E-02	--	NM	--	0.229	--	8.0	--	6.9	--	9.0	--	9.0	--	62	--	40	--	< 10.0	U
YP-T-23A	7	2014	6.4E-03	--	NM	--	0.118	--	3.9	--	6.6	--	11.3	--	38	--	42	--	94.4	--	< 10.0	U
YP-T-23A	8	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	11	2014	NA	--	0	--	0.776	--	9.0	--	7.1	--	2.5	--	2.8	--	68	--	13	J+	3.9	--
YP-T-23A	2	2015	3.8E-03	--	0	--	0.280	--	9.2	--	7.0	--	5.1	--	2.5	--	61	--	185	--	2.2	--
YP-T-23A	5	2015	7.3E-03	--	0	--	0.245	--	7.7	--	6.7	--	12.5	--	28	--	66	--	59.4	J	2.6	--
YP-T-23A	8	2015	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-T-23A	11	2015	NA	--	NM	--	1.253	--	9.4	--	7.0	--	2.7	--	36	--	47	--	1170	--	4.1	J+
YP-T-23A	2	2016	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-T-23A

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	1560	- -	1560	- -	NM	- -	1840	- -	1110	- -	NM	- -	NM	- -	NM	- -	NM	- -	63.2	J+	NM	- -	NM	- -
0.139	- -	985	- -	1070	- -	2930	- -	3050	- -	2450	- -	34.2	J+	22.9	J+	0.16	- -	< 0.02	U	55.6	- -	< 50.0	U	< 50.0	U
0.115	- -	292	- -	246	- -	NM	- -	2230	- -	2040	- -	NM	- -	NM	- -	NM	- -	NM	- -	38.1	- -	NM	- -	NM	- -
0.127	- -	350	- -	48.1	- -	NM	- -	5130	- -	1910	- -	NM	- -	NM	- -	NM	- -	NM	- -	31.8	J+	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	1230	- -	1200	- -	NM	- -	1130	- -	845	- -	NM	- -	NM	- -	NM	- -	NM	- -	68.3	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	1130	- -	932	- -	6.65	- -	1450	- -	789	- -	101	- -	26.3	- -	0.18	- -	< 0.02	U	78.3	- -	< 50.0	U	< 50.0	U
< 0.050	U	989	- -	999	- -	NM	- -	577	- -	573	- -	NM	- -	NM	- -	NM	- -	NM	- -	59.5	- -	NM	- -	NM	- -
0.055	- -	789	- -	827	- -	NM	- -	711	- -	537	- -	NM	- -	NM	- -	NM	- -	NM	- -	54.1	- -	NM	- -	NM	- -
0.172	- -	266	- -	260	- -	1640	- -	2540	- -	2350	- -	23.7	- -	22.8	- -	< 0.02	U	< 0.02	U	64.1	- -	< 20.0	U	< 20.0	U
0.152	- -	49.1	- -	33	- -	NM	- -	2430	- -	1690	- -	NM	- -	NM	- -	NM	- -	NM	- -	50.6	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	4790	- -	4750	- -	NM	- -	950	- -	960	- -	NM	- -	NM	- -	NM	- -	NM	- -	63.8	- -	NM	- -	NM	- -
< 0.050	U	4920	- -	4840	- -	6.5	- -	950	- -	766	- -	36.5	- -	32.9	- -	0.02	- -	< 0.02	U	94	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.05	U	1100	- -	1020	- -	NM	- -	776	- -	653	- -	NM	- -	NM	- -	NM	- -	NM	- -	77	J+	NM	- -	NM	- -
< 0.050	U	1430	- -	1460	- -	NM	- -	482	- -	477	- -	NM	- -	NM	- -	NM	- -	NM	- -	68	- -	NM	- -	NM	- -
< 0.050	U	1460	- -	1400	- -	2.12	- -	328	- -	324	- -	43.3	- -	43	- -	< 0.02	U	< 0.02	U	62	- -	< 20.0	U	< 20.0	U
< 0.050	U	786	- -	789	- -	NM	- -	377	- -	353	- -	NM	- -	NM	- -	NM	- -	NM	- -	62	- -	NM	- -	NM	- -
0.155	- -	67.9	- -	44.6	- -	NM	- -	2240	- -	1440	- -	NM	- -	NM	- -	NM	- -	NM	- -	42	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	3080	- -	3080	- -	19.6	- -	650	- -	422	- -	36.6	- -	34.8	- -	0.02	- -	< 0.02	U	68	- -	< 20.0	U	< 20.0	U
< 0.050	U	813	- -	795	- -	4.3	- -	874	- -	607	- -	45.6	- -	35.5	- -	0.06	- -	< 0.02	U	61	- -	< 20.0	UJ	< 20.0	UJ
< 0.050	U	841	- -	838	- -	27.7	- -	980	- -	700	- -	41.9	- -	31.6	- -	0.03	- -	< 0.02	U	66	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.05	U	4790	- -	4380	- -	63.7	- -	1520	- -	467	- -	103	- -	45.5	- -	0.3	- -	< 0.02	U	47	- -	< 20	U	< 20	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
0.03	J+	< 0.02	U	47500	- -	49900	- -	< 9.0	U	0.57	- -	0.3	J+	< 0.2	U	NM	- -	NM	- -	2.7	J+	0.8	J+	NM	- -
< 0.02	U	< 0.02	U	30500	- -	30900	- -	< 9.0	U	0.62	J	1.6	J+	< 0.2	U	1.87	J+	1.47	J+	1.8	- -	0.4	- -	< 0.010	U
< 0.02	U	< 0.02	U	15700	- -	15900	- -	< 9.0	U	1.01	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	0.9	- -	0.3	- -	NM	- -
0.05	J+	< 0.02	U	10100	- -	9520	- -	< 9.0	U	< 0.40	U	1.1	J+	< 0.2	U	NM	- -	NM	- -	5	- -	0.2	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	46200	- -	47000	- -	< 9.0	U	0.85	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	2.1	- -	1.2	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.08	J+	< 0.02	U	52700	- -	50100	- -	< 9.0	U	0.57	- -	0.7	J+	< 0.2	U	2.48	J+	0.56	J+	7.2	- -	0.9	J+	0.0065	- -
< 0.02	U	< 0.02	U	34800	- -	34500	- -	< 9.0	U	0.77	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	1.3	J+	1.2	J+	NM	- -
< 0.02	U	< 0.02	U	28900	- -	28500	- -	< 9.0	U	0.97	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	1.1	- -	0.3	J+	NM	- -
< 0.02	U	< 0.02	U	28700	- -	28500	- -	< 9.0	U	0.48	- -	< 0.2	U	< 0.2	U	0.97	J+	0.96	J+	0.6	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	16700	- -	16700	- -	< 9.0	U	0.45	- -	0.3	J+	0.2	J+	NM	- -	NM	- -	0.5	J+	0.2	J+	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	94900	- -	92600	- -	< 9.0	U	0.93	- -	< 0.2	U	< 0.2	U	NM	- -	NM	- -	4.7	- -	4.5	- -	NM	- -
< 0.02	U	< 0.02	U	110000	- -	110000	- -	< 15	U	0.44	- -	< 0.2	U	< 0.2	U	0.61	J+	0.49	J+	4.4	- -	4.1	- -	0.0083	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	39300	- -	38700	- -	< 15	U	1.09	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	49300	- -	48600	- -	< 15	U	1.54	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	38100	- -	38000	- -	< 15	U	0.92	- -	< 0.2	U	< 0.2	U	0.21	J+	0.15	J+	0.9	J+	0.7	J+	< 0.0047	U
NM	- -	NM	- -	29400	- -	29500	- -	< 15	U	< 0.40	U	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	12200	- -	12400	- -	< 15	U	0.65	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.04	J+	0.04	J+	138000	- -	146000	- -	< 15	U	1.17	- -	< 0.2	U	< 0.2	U	1.81	- -	2.4	- -	3.7	- -	3	- -	0.0048	- -
< 0.02	U	< 0.02	U	39600	- -	39900	- -	< 15	U	0.85	- -	0.2	J+	< 0.2	U	0.59	J+	0.31	J+	2.4	- -	0.7	J+	0.0059	- -
< 0.02	U	< 0.02	U	31300	- -	30800	- -	< 15	U	< 0.40	UJ	< 0.2	U	< 0.2	U	0.53	J+	0.24	J+	1.9	- -	1.1	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.11	J+	0.04	J+	227000	- -	222000	- -	< 15	U	2.21	- -	1.3	J+	0.4	J+	2.88	- -	1.95	J+	15.2	- -	5	- -	0.015	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	145	- -	2630	- -	1150	- -	0.9	- -	< 0.02	U	6370	- -	6440	- -	NM	- -	NM	- -	61	- -	NM	- -	NM	- -
< 0.40	U	95.3	- -	6610	- -	2310	- -	1.18	J+	0.12	J+	4660	- -	4420	- -	1160	- -	1120	- -	175	- -	18.1	- -	< 0.1	UJ
< 0.40	U	49.7	- -	3310	- -	2390	- -	0.72	- -	0.11	J+	2570	- -	2530	- -	NM	- -	NM	- -	48.8	- -	7.5	- -	NM	- -
< 0.40	U	32.8	- -	13400	- -	1780	- -	5.42	- -	0.06	J+	2070	- -	1500	- -	NM	- -	NM	- -	284	- -	5	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	134	- -	947	- -	< 20.0	U	0.56	- -	< 0.02	U	4400	- -	4460	- -	NM	- -	NM	- -	37.6	- -	6.3	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	152	- -	3850	- -	24.4	- -	3.01	- -	< 0.02	U	4930	- -	4630	- -	3720	- -	370	- -	390	- -	4.4	- -	< 0.1	U
< 0.40	U	103	- -	106	- -	< 20.0	U	0.12	J+	< 0.02	U	4000	- -	3960	- -	NM	- -	NM	- -	8.3	- -	5.1	- -	NM	- -
< 0.40	U	88.3	- -	1990	- -	1230	- -	0.99	- -	< 0.02	U	3920	- -	3850	- -	NM	- -	NM	- -	21.4	- -	2.6	- -	NM	- -
< 0.40	U	88.5	- -	7290	- -	6200	- -	0.41	- -	0.05	- -	4120	- -	4110	- -	1920	- -	1880	- -	9.8	- -	2	- -	< 0.1	U
< 0.40	U	52.2	- -	6430	- -	3990	- -	0.67	- -	0.05	J+	2540	- -	2530	- -	NM	- -	NM	- -	10.3	- -	1.6	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.72	- -	271	- -	58.7	- -	< 20.0	U	0.03	J+	< 0.02	U	8210	- -	8140	- -	NM	- -	NM	- -	22.6	- -	19.2	- -	NM	- -
< 0.20	U	314	- -	526	- -	< 20.0	U	0.14	J+	< 0.02	U	9740	- -	10000	- -	49.6	- -	18.6	- -	18.8	- -	10	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.2	U	115	- -	596	- -	< 20	U	0.43	- -	< 0.02	U	4080	- -	4030	- -	76.7	- -	5.8	- -	17	- -	4.8	- -	NM	- -
< 0.20	U	450	- -	189	- -	< 20.0	U	0.44	J+	0.05	J+	6490	- -	6360	- -	10.3	- -	4.7	- -	7.5	- -	4.2	- -	NM	- -
< 0.20	U	115	- -	31.1	- -	< 20.0	U	0.06	J+	< 0.02	U	4730	- -	4830	- -	15.5	- -	15	- -	8	- -	4.9	- -	< 0.1	U
< 0.20	U	86.7	- -	128	- -	< 20.0	U	0.11	J+	< 0.02	U	3240	- -	3230	- -	26.1	- -	16.6	- -	10.6	- -	3.6	- -	NM	- -
< 0.20	U	38	- -	6630	- -	3350	- -	1.18	- -	0.03	J+	1810	- -	1820	- -	1110	- -	1100	- -	25.6	- -	2.6	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	406	- -	424	- -	230	- -	0.03	J+	< 0.02	U	15200	- -	18500	- -	225	- -	329	- -	10.9	- -	5.6	J+	< 0.1	U
< 0.20	U	115	- -	1040	- -	< 20.0	U	0.75	- -	< 0.02	U	3920	- -	3850	- -	67.6	J-	6	J-	22.5	- -	3.4	- -	< 0.1	U
0.21	- -	91.7	- -	1130	J	34.9	- -	0.31	J+	< 0.02	U	3270	- -	3210	- -	81.9	- -	15.9	- -	19.3	- -	6.8	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.2	U	661	- -	5640	- -	41.9	- -	7.64	- -	< 0.02	U	22700	- -	21500	- -	244	- -	125	- -	264	- -	6.9	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	- -	NM	- -	NM	- -	NM	- -	0.414	- -	NM	- -	NM	- -	101	J	49.5	J	2900	- -	2760	- -	2.8	- -	3.3	- -
0.57	- -	0.79	- -	3.2	J+	1.4	J+	0.162	- -	1.12	- -	0.96	- -	116	J+	< 40.0	U	2800	- -	2310	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	109	J+	53	J+	1360	- -	1290	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	485	J-	76.2	J-	2330	- -	1010	- -	< 1.0	UJ	< 1.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	0.265	- -	NM	- -	NM	- -	175	- -	72.8	- -	3210	- -	3100	- -	2	- -	2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.52	- -	2.19	- -	3.3	J+	0.9	J+	0.266	- -	1.67	- -	1.4	- -	329	- -	69.8	- -	4470	- -	3940	- -	1.2	- -	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	0.558	- -	NM	- -	NM	- -	72.1	J+	70.6	J+	2190	- -	2180	- -	1.1	J-	1.2	J-
NM	- -	NM	- -	NM	- -	NM	- -	0.289	- -	NM	- -	NM	- -	68.7	J-	< 40.0	UJ	1970	- -	1960	- -	1.6	- -	1.6	- -
0.57	- -	0.63	- -	0.38	J+	0.5	J+	0.101	- -	0.74	J+	0.64	J+	111	- -	< 40.0	U	1770	- -	1730	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	133	- -	64.8	- -	1140	- -	1130	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	112	J-	96.7	J-	7420	- -	7330	- -	7.9	- -	8.5	- -
4.24	- -	3.95	- -	0.67	J+	0.62	J+	< 0.050	U	1.19	- -	1.19	- -	144	- -	< 80.0	UJ	5690	- -	5770	- -	4.9	- -	5.1	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	0.582	- -	NM	- -	NM	- -	123	J-	63.4	J-	2510	- -	2420	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	0.493	- -	NM	- -	NM	- -	61.2	J-	51.3	J-	2290	- -	2260	- -	NM	- -	NM	- -
0.87	- -	0.84	- -	0.6	J+	0.5	J+	< 0.050	U	0.8	J+	0.8	J+	49	- -	45	- -	2140	- -	2140	- -	1.8	- -	1.8	- -
NM	- -	NM	- -	NM	- -	NM	- -	0.258	- -	NM	- -	NM	- -	58.8	J-	41.8	J-	2330	- -	2270	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	< 0.050	U	NM	- -	NM	- -	206	- -	78.8	J-	1100	- -	1040	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.03	- -	1.84	- -	2.6	J+	2.9	J+	< 0.050	U	0.55	J	0.53	J	129	- -	< 40.0	U	7050	- -	7090	- -	8.2	- -	6.5	- -
1.17	- -	1.16	- -	0.5	J+	0.2	J+	0.471	- -	1.12	J+	0.64	J+	135	- -	47.3	- -	2160	- -	1960	- -	1.5	- -	1.5	- -
1.51	- -	1.59	- -	0.4	J+	0.2	J+	< 0.050	U	0.99	- -	0.98	- -	205	J	< 40.0	U	2330	- -	2190	- -	1.1	- -	1	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.82	- -	2.07	- -	5.1	J+	4.7	J+	< 0.05	U	1.47	J+	1.47	J+	582	- -	59.6	- -	17800	- -	16500	- -	14.5	- -	14.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

YP-T-23A

Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
NM	- -	NM	- -	5080	- -	4990	- -	235	- -	15.5	- -	101	- -	NM	- -	NM	- -	NM	- -	NM	- -	17.8	J+	17	- -
0.16	J+	0.03	J+	5470	- -	5570	- -	132	- -	76	- -	49.2	- -	0.09	J+	< 0.02	U	2	- -	0.4	- -	9.4	J+	5.4	J+
NM	- -	NM	- -	3740	- -	3710	- -	156	- -	9.5	- -	19.6	- -	NM	- -	NM	- -	NM	- -	NM	- -	3	J+	2.3	J+
NM	- -	NM	- -	3180	- -	3020	- -	53.5	- -	43	- -	5.14	- -	NM	- -	NM	- -	NM	- -	NM	- -	19.5	- -	2.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	5950	- -	6010	- -	187	- -	8	- -	67	- -	NM	- -	NM	- -	NM	- -	NM	- -	9.8	- -	2.8	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.29	- -	< 0.02	U	9150	- -	9310	- -	215	- -	81.5	- -	78	- -	0.2	- -	0.03	J+	1.6	- -	< 0.2	U	45.9	- -	4.6	J+
NM	- -	NM	- -	5540	- -	5580	- -	184	- -	< 5.0	U	56.1	- -	NM	- -	NM	- -	NM	- -	NM	- -	5.5	- -	5.3	- -
NM	- -	NM	- -	5010	- -	4990	- -	136	- -	< 5.0	U	36.9	- -	NM	- -	NM	- -	NM	- -	NM	- -	5.6	- -	4.9	- -
< 0.02	U	< 0.02	U	5380	- -	5240	- -	140	- -	7	- -	32.4	- -	< 0.020	U	< 0.020	U	0.4	- -	0.3	- -	3.7	- -	4.3	J+
NM	- -	NM	- -	3960	- -	3960	- -	83	J	10	- -	12.5	- -	NM	- -	NM	- -	NM	- -	NM	- -	2.3	J+	2.1	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	9690	- -	9390	- -	427	- -	< 5.0	U	225	- -	NM	- -	NM	- -	NM	- -	NM	- -	10.1	- -	8.7	- -
< 0.02	U	< 0.02	U	11700	- -	11700	- -	463	- -	20	- -	244	- -	0.08	- -	0.06	- -	0.4	- -	0.3	- -	5.9	- -	4	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	5950	- -	6030	- -	168	- -	< 5	U	63.5	- -	NM	- -	NM	- -	NM	- -	NM	- -	6.7	- -	2.3	J+
NM	- -	NM	- -	5580	- -	5590	- -	213	- -	< 5.0	U	93.7	- -	NM	- -	NM	- -	NM	- -	NM	- -	7.1	J+	6.7	J+
< 0.02	U	< 0.02	U	5370	- -	5410	- -	182	- -	< 5.0	U	68.4	- -	0.03	- -	< 0.02	U	0.5	- -	0.4	- -	8.4	- -	7.5	- -
NM	- -	NM	- -	5070	- -	5060	- -	156	- -	< 5.0	U	44.1	- -	NM	- -	NM	- -	NM	- -	NM	- -	4.5	J+	4.2	J+
NM	- -	NM	- -	3330	- -	3470	- -	92	- -	13.5	- -	7.38	- -	NM	- -	NM	- -	NM	- -	NM	- -	2.1	J+	1.4	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.062	J+	0.05	J+	12500	- -	12400	- -	510	- -	20	- -	313	- -	0.06	J+	0.06	J+	0.2	- -	< 0.2	U	33.8	- -	38.2	- -
0.07	- -	< 0.02	U	4780	- -	4820	- -	173	- -	6.5	- -	60.4	- -	0.04	- -	< 0.02	U	0.7	- -	0.2	- -	9	- -	3.9	J+
< 0.02	U	< 0.02	U	5740	- -	5710	- -	151	- -	103	J	43.2	- -	0.03	- -	< 0.02	U	0.7	- -	0.4	- -	9.7	- -	1.6	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	17400	- -	16800	- -	1020	- -	49.5	- -	614	- -	0.33	- -	0.1	- -	3.1	- -	0.4	- -	55.3	- -	33.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

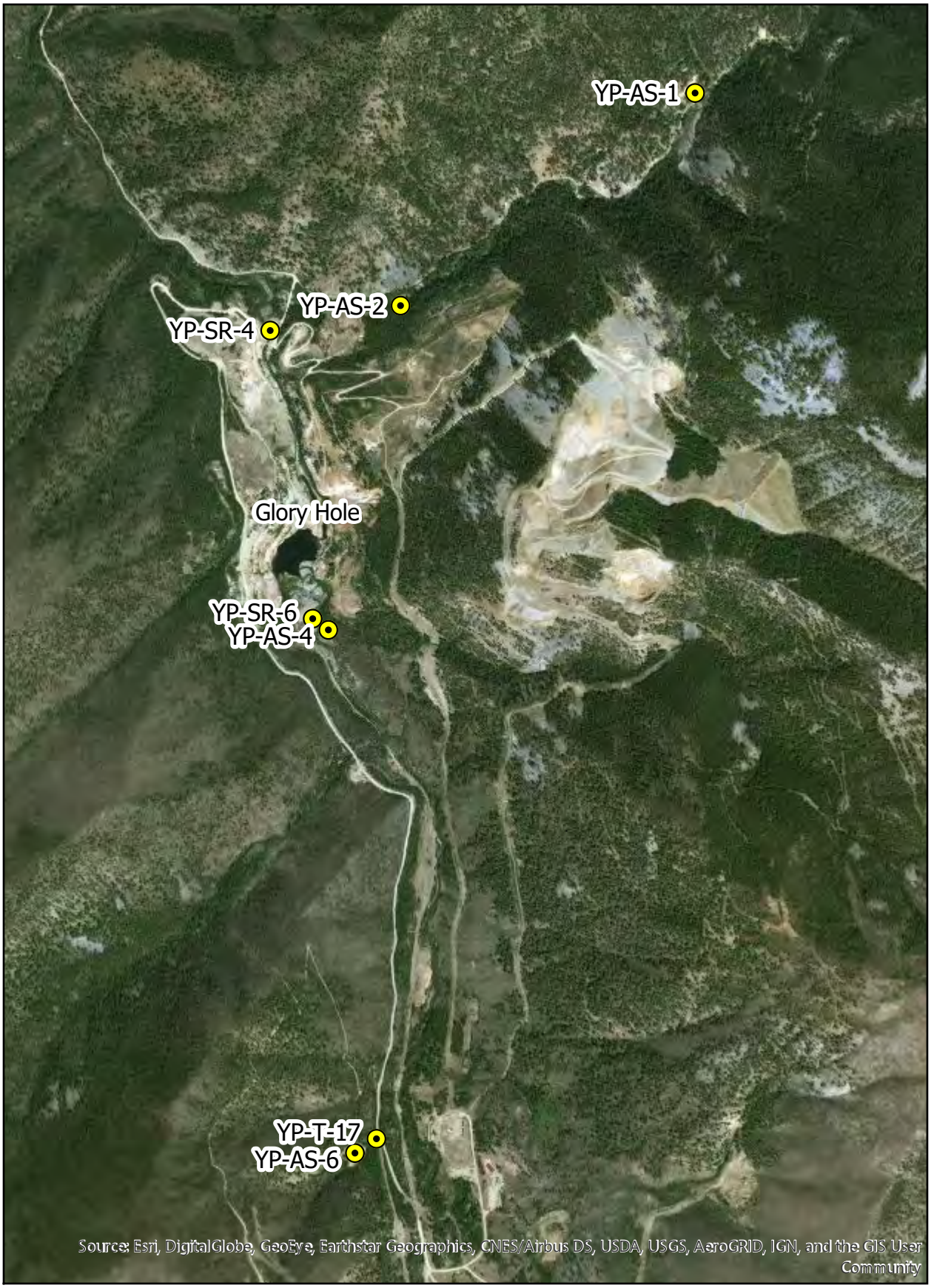
Exhibit 11 - Photos of the Bailey Tunnel Adit

"The Bailey Tunnel outlet (YP-AS-2) flows from a collapsed wood frame on the hillside south of Sugar Creek about a quarter mile upstream from the FS 412 bridge over Sugar Creek (see photos in Appendix G). The Bailey Tunnel served as the EFSFSR diversion around the Yellow Pine pit in the 1940s during high flows; the upper (south) end of the tunnel was also used for development work during ten months of the year (Mitchell 2000). The seep flows through a thickly vegetated gully between two wasterock piles and flows into Sugar Creek year round, although the flow has been observed being blocked by heavy ice build-up occasionally in the winter." (Surface Water Quality Baseline Study, pg 4-123)

Figure 11A. Photo of the Bailey Tunnel Adit (YP-AS-2) from the Surface Water Quality Baseline Study, Appendix G, November 2012 Site Photos, page 14. Photo caption reads, "YP-AS-2, Bailey Tunnel outlet. Close-up looking south and upstream at seep source. November 2012."

Figure 11B. Photo of the Bailey Tunnel Adit (YP-AS-2) from the Surface Water Quality Baseline Study, Appendix G, November 2012 Site Photos, page 14. Photo caption reads, "YP-AS-2, Bailey Tunnel outlet. Looking south and upstream at outlet flowing into Sugar Creek (flows downstream to right). November 2012."

Exhibit 12 - Map of Remaining Sites



DMEA seeps (YP-AS-6, YP-T-17); Cinnabar Adit Seep (YP-AS-4); EFSFSR sites (YP-SR-4, YP-SR-6); Bailey Tunnel Adit Seep (YP-AS-2); and the Bonanza Adit Seep (YP-AS-1)

Exhibit 13 - The Bailey Tunnel Adit Data

Table 13A. Descriptive statistics of data from the Bailey Tunnel Adit Seep (YP-AS-2) (Surface Water Quality Baseline Study, Appendix E, pages 9-14). Data was collected from May, 2012 to February, 2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations								
µg/L	**Antimony**		**Arsenic**		**Iron**		**Manganese**	
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**
Bailey Tunnel Adit Seep (YP-AS-2)								
Minimum	77.8	99.4	66.9	141.0	0.0	214.0	81.0	87.8
Maximum	298.0	308.0	351.0	794.0	136.0	932.0	205.0	207.0
Average	183.3	186.4	145.2	272.6	35.1	370.3	131.2	138.1
Median	172.0	172.0	109.5	174.0	0.0	315.5	131.0	132.0
# Samples	20	20	20	20	20	20	20	20

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-AS-2	5	2012	0.12	--	0	--	0.496	--	9.6	--	7.4	--	6.3	--	9.9	--	87.6	--	22.6	--	< 2.0	U
YP-AS-2	6	2012	9.0E-02	--	NM	--	0.479	--	9.6	--	7.4	--	7.6	--	9.6	--	NM	--	NM	--	NM	--
YP-AS-2	7	2012	7.8E-02	--	NM	--	0.493	--	9.1	--	7.2	--	10.5	--	14	--	NM	--	NM	--	NM	--
YP-AS-2	8	2012	0.14	--	0	--	0.485	--	9.3	--	7.2	--	7.2	--	5.0	--	136	--	46.7	--	7.8	--
YP-AS-2	9	2012	9.3E-02	--	NM	--	0.452	--	9.1	--	7.2	--	6.5	--	2.6	--	NM	--	NM	--	NM	--
YP-AS-2	10	2012	0.20	--	NM	--	0.439	--	9.2	--	7.5	--	5.9	--	10	--	NM	--	NM	--	NM	--
YP-AS-2	11	2012	0.16	--	0	--	0.461	--	9.3	--	7.3	--	6.1	--	3.5	--	101	--	8.4	--	< 2.0	U
YP-AS-2	12	2012	9.2E-02	--	NM	--	0.524	--	10.4	--	7.5	--	4.6	--	4.9	--	NM	--	NM	--	NM	--
YP-AS-2	1	2013	0.12	--	NM	--	0.504	--	9.6	--	7.7	--	5.0	--	4.6	--	NM	--	NM	--	NM	--
YP-AS-2	2	2013	0.10	--	0	--	0.480	--	9.4	--	7.6	--	4.6	--	7.1	--	98	--	26.4	--	7.7	--
YP-AS-2	3	2013	8.9E-02	--	NM	--	0.467	--	9.4	--	7.6	--	5.2	--	4.2	--	NM	--	NM	--	NM	--
YP-AS-2	4	2013	0.14	--	NM	--	0.556	--	9.1	--	7.5	--	5.3	--	3.1	--	NM	--	NM	--	NM	--
YP-AS-2	5	2013	0.12	--	0	--	0.689	--	8.9	--	7.1	--	7.0	--	1.4	--	98.2	--	15.8	--	2.6	--
YP-AS-2	6	2013	0.22	--	NM	--	0.605	--	8.6	--	7.2	--	7.1	--	1.8	--	NM	--	NM	--	NM	--
YP-AS-2	7	2013	0.19	--	NM	--	0.561	--	8.9	--	7.0	--	7.2	--	3.8	--	NM	--	NM	--	NM	--
YP-AS-2	8	2013	0.11	--	0	--	0.514	--	9.2	--	7.4	--	7.6	--	4.7	--	92.6	--	9.3	--	< 2.0	U
YP-AS-2	9	2013	8.0E-02	--	NM	--	0.565	--	9.1	--	7.2	--	7.0	--	14	--	NM	--	NM	--	NM	--
YP-AS-2	10	2013	7.9E-02	--	NM	--	0.640	--	9.2	--	7.4	--	5.7	--	6.8	--	NM	--	NM	--	NM	--
YP-AS-2	11	2013	6.5E-02	--	0	--	0.695	--	9.5	--	7.5	--	5.8	--	5.0	--	109	--	10.4	--	3.1	--
YP-AS-2	12	2013	4.5E-02	--	NM	--	0.722	--	10.0	--	7.3	--	4.8	--	5.1	--	NM	--	NM	--	NM	--
YP-AS-2	1	2014	5.4E-02	--	NM	--	0.611	--	10.9	--	6.7	--	5.2	--	6.9	--	NM	--	NM	--	NM	--
YP-AS-2	2	2014	8.3E-02	--	0	--	0.650	--	9.6	--	7.1	--	6.2	--	8.7	--	100	--	5.5	J+	< 2	U
YP-AS-2	3	2014	4.8E-02	--	NM	--	0.608	--	9.8	--	7.3	--	5.2	--	4.8	--	NM	--	NM	--	NM	--
YP-AS-2	4	2014	4.4E-02	--	NM	--	0.752	--	6.8	--	7.2	--	5.4	--	4.8	--	NM	--	NM	--	NM	--
YP-AS-2	5	2014	7.7E-02	--	0	--	0.945	--	9.5	--	7.0	--	6.5	--	6.0	--	93	--	15.4	--	5.3	--
YP-AS-2	6	2014	5.9E-02	--	NM	--	0.780	--	9.6	--	7.1	--	6.2	--	9.7	--	NM	--	NM	--	NM	--
YP-AS-2	7	2014	4.2E-02	--	NM	--	0.755	--	9.5	--	6.9	--	6.8	--	4.9	--	NM	--	NM	--	NM	--
YP-AS-2	8	2014	4.3E-02	--	0	--	0.702	--	9.3	--	7.3	--	7.2	--	4.0	--	99	--	7.4	--	2.1	--
YP-AS-2	11	2014	3.8E-02	--	0	--	0.638	--	9.6	--	7.1	--	5.9	--	5.5	--	105	--	6.8	--	< 2.0	U
YP-AS-2	2	2015	6.2E-02	--	NM	--	0.745	--	7.6	--	7.4	--	6.1	--	8.6	--	108	--	7.9	J+	3.1	--
YP-AS-2	5	2015	5.4E-02	--	0	--	0.905	--	9.4	--	7.3	--	6.3	--	13	--	103	--	7.4	--	3	--
YP-AS-2	8	2015	3.6E-02	--	0	--	0.709	--	9.3	--	7.2	--	7.1	--	3.7	--	104	--	10.8	--	4.6	--
YP-AS-2	11	2015	2.5E-02	--	0	--	0.631	--	9.2	--	7.4	--	5.1	--	4.2	--	104	--	9.9	--	3.5	--
YP-AS-2	2	2016	3.0E-02	--	0	--	0.679	--	9.9	--	7.4	--	5.5	--	4.0	--	104	--	6.2	--	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-AS-2

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	308	--	298	--	2.8	--	794	--	66.9	--	23.5	J+	21	J+	0.05	--	< 0.02	U	87.6	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	294	--	295	--	7.7	--	687	--	338	--	21.1	--	19.8	--	0.05	--	< 0.02	U	136	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	291	--	288	--	2.9	--	530	--	351	--	19.8	--	19.1	--	0.03	J+	< 0.02	U	101	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	285	--	268	--	2.7	--	457	--	318	--	21.1	--	20.5	--	0.04	--	0.02	--	98	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	229	J	225	--	1.72	--	285	--	167	--	26.6	--	26.2	--	0.04	--	< 0.02	U	98.2	--	< 20.0	UJ	< 20.0	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	228	--	232	--	2.4	--	329	--	214	--	19	--	19.4	--	0.02	--	< 0.02	U	92.6	--	< 40.0	UJ	< 40.0	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	192	--	187	--	3	--	234	--	129	--	24.4	--	23.5	--	0.08	--	0.06	--	109	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.05	U	190	--	187	--	1.87	J	154	--	92.5	--	18.5	--	18.5	--	0.08	J+	0.06	J+	100	J	< 20	U	< 20	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	145	--	140	--	3.27	--	164	--	94.5	--	28.8	--	27.5	--	0.19	--	0.14	--	93	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	163	--	161	--	2.2	--	158	--	90.5	--	21.6	--	20.7	--	0.11	--	0.07	--	99	--	< 20.0	U	< 20.0	U
< 0.050	U	181	--	181	--	2.4	--	174	--	90.5	--	20.5	--	20.8	--	0.1	--	0.07	J+	105	--	< 20.0	U	< 20.0	U
< 0.050	U	173	--	172	--	2.3	--	164	--	90.7	--	22.2	--	21.8	--	0.12	--	0.1	--	108	--	< 20.0	UJ	< 20.0	UJ
< 0.050	U	111	--	111	--	2.3	--	153	--	99.7	--	24.7	--	25	--	0.11	--	0.08	--	103	--	< 20.0	U	< 20.0	U
< 0.05	U	153	--	157	--	2.29	--	176	--	125	--	20.1	--	20.5	--	0.097	--	0.074	--	104	--	< 20	U	< 21.3	U
0.065	--	170	--	166	--	2.8	--	185	--	104	--	20.5	--	19.6	--	0.07	--	0.06	--	104	--	< 20	U	< 20	U
< 0.05	U	171	--	172	--	1.79	--	163	--	99.7	--	18.8	--	18.9	--	0.09	--	0.05	--	104	--	< 20	U	< 20	U

YP-AS-2

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	62200	--	65800	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.26	J+	0.05	J+	0.7	--	< 0.1	U	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	63000	--	64000	--	< 90	U	0.55	--	< 0.2	U	< 0.2	U	0.32	J+	0.3	J+	0.8	--	0.4	--	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	61800	--	61600	--	< 9.0	U	0.63	--	< 0.2	U	< 0.2	U	0.23	J+	0.21	J+	0.3	--	0.2	--	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	66900	--	65100	--	< 9.0	U	0.57	--	< 0.2	U	0.4	J+	0.4	J+	0.39	J+	0.8	J+	0.7	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	93700	--	94500	--	< 9.0	U	0.5	--	< 0.2	U	< 0.2	U	0.31	J+	0.29	J+	0.5	J+	0.3	J+	0.0055	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	70000	--	68000	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.23	J+	0.21	J+	0.3	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	98500	--	98500	--	< 15	U	0.49	--	0.7	J+	< 0.2	U	0.44	J+	0.41	J+	0.3	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	85500	--	85700	J	< 15	U	0.58	--	< 0.2	U	< 0.2	U	0.4	J+	0.39	J+	0.5	J+	0.4	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.02	J+	0.04	J+	129000	--	129000	--	< 15	U	0.75	--	0.8	J+	< 0.2	U	0.93	J+	0.88	J+	0.6	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	95700	--	94400	--	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	0.48	J+	0.45	J+	0.4	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	87100	--	88500	--	< 15	U	0.68	--	< 0.2	U	< 0.2	U	0.44	--	0.44	--	0.4	J+	0.6	J+	< 0.0047	U
< 0.02	U	< 0.02	U	102000	--	101000	--	< 15	U	0.68	--	< 0.2	U	< 0.2	U	0.52	J+	0.5	J+	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	125000	--	125000	--	< 15	U	0.46	--	< 0.2	U	< 0.2	U	0.44	J+	0.42	J+	0.3	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	94000	--	96500	--	< 15	U	0.44	--	< 0.2	U	< 0.2	U	0.598	--	0.336	--	0.56	--	0.56	--	< 0.0047	U
< 0.02	U	< 0.02	U	83700	--	80100	--	< 15	U	0.54	J	< 0.2	U	< 0.2	U	0.53	J+	0.52	J+	0.7	J+	0.6	J+	< 0.0047	U
< 0.02	U	< 0.02	U	90100	--	86100	--	< 15	U	0.61	--	< 0.2	U	< 0.2	U	0.46	--	0.44	--	0.5	--	0.9	--	< 0.0047	U

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	232	--	924	--	< 20.0	U	0.05	J+	< 0.02	U	18600	--	19400	--	175	--	170	--	3	J+	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	233	--	932	--	124	--	0.12	J+	< 0.02	U	18400	--	18100	--	170	--	167	--	6.5	--	1.3	--	0.11	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	224	--	343	--	< 20.0	U	< 0.02	U	< 0.02	U	16800	--	16700	--	176	--	171	--	1.5	--	< 1.0	U	0.1	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	247	--	470	--	136	--	0.07	--	0.03	--	19400	--	19700	--	194	--	189	--	1.7	--	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	353	--	277	--	< 20.0	U	0.03	--	< 0.02	U	28900	--	28900	--	136	--	131	--	1.8	--	1.4	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	256	--	254	--	< 20.0	U	< 0.02	U	< 0.02	U	19600	--	19100	--	121	--	118	--	1.2	--	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	369	--	358	--	< 20.0	U	0.02	J+	< 0.02	U	29900	--	28400	--	207	--	205	--	< 1.0	UJ	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.2	U	316	--	228	--	< 20	U	< 0.02	U	< 0.02	U	25000	--	24700	--	128	--	131	--	< 1	U	< 1	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	496	--	284	--	< 20.0	U	< 0.02	U	< 0.02	U	42300	J	42500	J	141	--	134	--	1.5	--	0.9	--	0.1	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	364	--	353	--	30.8	--	< 0.02	U	< 0.02	U	30300	--	30600	--	155	--	151	--	0.8	--	0.5	--	< 0.1	U
< 0.20	U	322	--	375	--	< 20.0	U	< 0.02	U	< 0.02	U	25300	--	25900	--	145	--	140	--	0.9	--	< 0.5	U	< 0.1	U
0.2	--	381	--	314	--	< 20.0	U	< 0.02	U	< 0.02	U	30900	--	30500	--	158	--	152	--	0.6	--	< 0.5	U	< 0.1	U
< 0.20	U	473	--	271	--	< 20.0	U	< 0.02	U	< 0.02	U	39100	--	38900	--	119	--	111	--	1.1	--	0.6	--	< 0.1	U
< 0.2	U	353	--	317	--	88.2	--	< 0.02	U	< 0.02	U	28800	--	28700	--	114	--	97.2	--	0.9	--	0.6	--	< 0.1	U
< 0.2	U	312	--	345	--	41.5	--	< 0.02	U	< 0.02	U	25000	--	25500	--	120	--	103	--	0.8	--	< 0.5	U	< 0.1	U
< 0.2	U	337	--	273	--	< 20	U	< 0.02	U	< 0.02	U	27300	--	26400	--	111	--	93.8	--	0.7	--	< 0.5	U	< 0.1	U

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
1.04	--	0.96	--	0.7	J+	< 0.2	U	0.095	--	0.54	--	0.44	--	35.5	J+	< 20.0	U	1720	--	1770	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.13	--	1.13	--	0.8	J+	0.8	J+	< 0.050	U	0.42	--	0.42	--	32.4	--	< 20.0	UJ	1750	--	1700	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.05	J+	1.07	J+	0.3	J+	0.3	J+	0.052	--	< 0.40	U	< 0.40	U	< 20.0	UJ	< 20.0	UJ	1710	--	1710	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.03	--	1.03	--	1.1	J+	1.2	J+	0.054	--	0.49	--	0.44	--	22.3	J+	< 20.0	U	1840	--	1940	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.84	--	0.76	--	0.45	J+	0.47	J+	0.092	--	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	2170	--	2160	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.08	--	1.01	--	0.28	J+	0.3	J+	0.061	--	0.52	--	0.46	--	< 40.0	U	< 40.0	U	1740	--	1710	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.86	--	0.88	--	0.53	J+	0.65	J+	0.059	--	< 0.40	U	< 0.40	U	< 80.0	UJ	< 80.0	UJ	2270	--	2140	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.77	J+	0.74	J+	1.1	J+	1.1	J+	0.064	--	0.5	--	0.44	--	< 40	UJ	< 40	UJ	1990	--	2010	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.44	--	0.38	--	1.6	J+	1.3	J+	0.092	--	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	2470	--	2540	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.63	--	0.62	--	1.2	J+	1.2	J+	0.066	--	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	2180	--	2210	--	< 1.0	U	< 1.0	U
0.66	--	0.66	--	1.1	J+	1.3	J+	0.066	--	0.52	J-	0.45	J-	< 40.0	U	< 40.0	U	2010	--	2040	--	< 1.0	U	< 1.0	U
0.62	--	0.59	--	0.7	J+	0.7	J+	0.071	--	0.68	J+	0.61	J+	< 40.0	U	< 40.0	U	2280	--	2160	--	< 1.0	U	< 1.0	U
0.48	--	0.49	--	0.7	J+	0.7	J+	0.094	--	0.55	--	0.46	--	< 40.0	U	< 40.0	U	2340	--	2360	--	< 1.0	U	< 1.0	U
0.61	J+	0.67	J+	1.17	--	1.16	--	0.062	--	0.52	--	0.46	--	< 40	U	< 42.6	U	2150	--	2160	--	< 1	U	< 1	U
0.72	--	0.72	--	1.4	J+	1.5	J+	< 0.05	U	0.58	J+	0.54	J+	< 40	U	< 40	U	1940	--	2000	--	< 1	UJ	< 1	UJ
0.73	--	0.73	--	1.4	--	1.5	--	0.075	--	0.56	--	0.49	--	< 40	U	< 40	U	2090	--	1990	--	< 1	U	< 1	U

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.020	U	< 0.020	U	2840	--	2950	--	366	--	< 5.0	U	149	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	4.5	J+	0.9	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.07	J+	0.02	J+	3280	--	3310	--	305	--	6.5	--	144	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	4.1	J+	3.1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3150	--	3140	--	276	--	< 5.0	U	128	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	3.4	J+	3.1	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	4450	--	4550	--	305	--	< 5.0	U	133	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	4.5	J+	4.4	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3630	--	3680	--	473	--	< 5.0	U	250	J	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	6.4	--	6	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3100	--	3040	--	360	--	< 5.0	U	164	--	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	3.9	J+	4	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	4590	--	4380	--	477	--	< 5.0	U	268	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	8.3	--	7.7	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3880	--	3880	--	418	J	< 5	U	222	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	6.3	J+	6	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3620	--	3640	--	709	--	< 5.0	U	445	--	0.04	--	0.04	--	< 0.2	U	< 0.2	U	22.1	--	21.2	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3550	--	3600	--	608	--	< 5.0	U	251	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	9.8	--	9.5	--
< 0.02	U	< 0.02	U	3330	--	3400	--	541	--	< 5.0	U	220	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	8.3	--	8.4	--
< 0.02	U	< 0.02	U	3670	--	3570	--	503	--	< 5.0	U	264	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	12.6	--	12.4	--
< 0.02	U	< 0.02	U	3450	--	3440	--	649	--	< 5.0	U	368	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	12.6	--	11.3	--
< 0.02	U	< 0.02	U	3280	--	3250	--	479	--	< 5	U	237	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	9.1	--	8.6	--
< 0.02	U	< 0.02	U	3240	--	3310	--	430	--	< 5	U	206	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	9.3	--	8.4	--
< 0.02	U	< 0.02	U	3640	--	3490	--	435	--	< 5	U	227	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	8.2	--	8.2	--

Anatek Labs, Inc.

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Client: NEZ PERCE TRIBE WATER RESOURCE DIV.
Address: PO BOX 365
LAPWAI, ID 83540
Attn: KEN CLARK

Batch #: 180618002
Project Name: MG WQS - 062018

Analytical Results Report

Sample Number 180618002-009 **Sampling Date** 6/13/2018 **Date/Time Received** 6/14/2018 3:45 PM
Client Sample ID YP-AS-2-S **Sampling Time** 4:30 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	0.0994	mg/L	0.001	6/27/2018 6:47:00 PM	HSW	EPA 200.8	
Arsenic	0.166	mg/L	0.001	6/27/2018 6:47:00 PM	HSW	EPA 200.8	
Cyanide	ND	mg/L	0.01	6/15/2018 2:00:00 PM	RPU	EPA 335.4	
Dissolved Antimony	0.0778	mg/L	0.001	6/29/2018 12:58:00 PM	HSW	EPA 200.8	
Dissolved Arsenic	0.0789	mg/L	0.001	6/29/2018 12:58:00 PM	HSW	EPA 200.8	
Dissolved Iron	0.0152	mg/L	0.01	6/28/2018 6:40:00 PM	SDR	EPA 200.7	
Dissolved Manganese	0.0842	mg/L	0.01	6/28/2018 6:40:00 PM	SDR	EPA 200.7	
Calcium	122	mg CaCO3/L	0.1	6/25/2018 1:27:00 PM	SDR	EPA 200.7	
Hardness	455	mg CaCO3/L	1	6/25/2018 1:27:00 PM	SDR	EPA 200.7	
Magnesium	36.3	mg CaCO3/L	0.1	6/25/2018 1:27:00 PM	SDR	EPA 200.7	
Iron	0.322	mg/L	0.02	6/25/2018 1:27:00 PM	SDR	EPA 200.7	
Manganese	0.0978	mg/L	0.01	6/25/2018 1:27:00 PM	SDR	EPA 200.7	
NO3/N+NO2/N	0.0924	mg/L	0.05	6/19/2018 10:40:00 AM	RPU	SM 4500 NO3F	
TSS	<1	mg/L	1	6/19/2018 3:20:00 PM	GPB	SM 2540D	
Sulfate	389	mg/L	1	6/22/2018 5:27:00 PM	MER	EPA 300.0	M1
TKN	ND	mg/L	0.5	6/22/2018 10:30:00 AM	RPU	SM4500NORGC	
Total Nitrogen	ND	mg/L		6/22/2018 10:30:00 AM	RPU	Calculation	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/13/18 16:30
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-2	**Basis:**	NA
Lab Code:	K1805697-016		

Dissolved Metals

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**5.6**		ug/L	4.0	1	07/12/18 11:16	06/19/18	
Antimony	6020A	**107**		ug/L	0.050	1	07/12/18 11:16	06/19/18	
Arsenic	6020A	**115**		ug/L	0.50	1	07/12/18 11:16	06/19/18	
Barium	6020A	**21.3**		ug/L	0.10	1	07/12/18 11:16	06/19/18	
Beryllium	6020A	**0.100**		ug/L	0.020	1	07/12/18 11:16	06/19/18	
Boron	6010C	ND	U	ug/L	21	1	06/28/18 17:50	06/19/18	
Cadmium	6020A	ND	U	ug/L	0.020	1	07/12/18 11:16	06/19/18	
Calcium	6010C	**117000**		ug/L	21	1	06/28/18 17:50	06/19/18	
Chromium	6020A	ND	U	ug/L	0.20	1	07/12/18 11:16	06/19/18	
Cobalt	6020A	**0.315**		ug/L	0.020	1	07/12/18 11:16	06/19/18	
Copper	6020A	**0.41**		ug/L	0.10	1	07/12/18 11:16	06/19/18	
Iron	6010C	**76**		ug/L	21	1	06/28/18 17:50	06/19/18	
Lead	6020A	ND	U	ug/L	0.020	1	07/12/18 11:16	06/19/18	
Magnesium	6010C	**35800**		ug/L	5.3	1	06/28/18 17:50	06/19/18	
Manganese	6010C	**81.0**		ug/L	1.1	1	06/28/18 17:50	06/19/18	
Molybdenum	6020A	**0.44**		ug/L	0.10	1	07/12/18 11:16	06/19/18	
Nickel	6020A	**0.52**		ug/L	0.20	1	07/12/18 11:16	06/19/18	
Phosphorus	6010C	ND	U	ug/L	42	1	06/28/18 17:50	06/19/18	
Potassium	6010C	**2210**		ug/L	420	1	06/28/18 17:50	06/19/18	
Selenium	6020A	ND	U	ug/L	1.0	1	07/12/18 11:16	06/19/18	
Silver	6020A	ND	U	ug/L	0.020	1	07/12/18 11:16	06/19/18	
Sodium	6010C	**2870**		ug/L	210	1	06/28/18 17:50	06/19/18	
Thallium	6020A	**0.022**		ug/L	0.020	1	07/12/18 11:16	06/19/18	
Vanadium	6020A	ND	U	ug/L	0.20	1	07/12/18 11:16	06/19/18	
Zinc	6020A	**11.3**		ug/L	2.0	1	07/12/18 11:16	06/19/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/13/18 16:30
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-2	**Basis:**	NA
Lab Code:	K1805697-016		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**11.0**		ug/L	4.0	1	07/02/18 17:21	06/19/18	
Antimony	6020A	**104**		ug/L	0.050	1	07/02/18 17:21	06/19/18	
Arsenic	6020A	**174**		ug/L	0.50	1	07/02/18 17:21	06/19/18	
Barium	6020A	**21.4**		ug/L	0.050	1	07/02/18 17:21	06/19/18	
Beryllium	6020A	**0.098**		ug/L	0.020	1	07/02/18 17:21	06/19/18	
Boron	6010C	ND	U	ug/L	21	1	06/28/18 17:16	06/19/18	
Cadmium	6020A	ND	U	ug/L	0.020	1	07/02/18 17:21	06/19/18	
Calcium	6010C	**119000**		ug/L	21	1	06/28/18 17:16	06/19/18	
Chromium	6020A	ND	U	ug/L	0.20	1	07/02/18 17:21	06/19/18	
Cobalt	6020A	**0.333**		ug/L	0.020	1	07/02/18 17:21	06/19/18	
Copper	6020A	**0.31**		ug/L	0.10	1	07/02/18 17:21	06/19/18	
Iron	6010C	**291**		ug/L	21	1	06/28/18 17:16	06/19/18	
Lead	6020A	ND	U	ug/L	0.020	1	07/02/18 17:21	06/19/18	
Magnesium	6010C	**34200**		ug/L	5.3	1	06/28/18 17:16	06/19/18	
Manganese	6010C	**87.8**		ug/L	1.1	1	06/28/18 17:16	06/19/18	
Molybdenum	6020A	**0.43**		ug/L	0.10	1	07/02/18 17:21	06/19/18	
Nickel	6020A	**0.47**		ug/L	0.20	1	07/02/18 17:21	06/19/18	
Phosphorus	6010C	ND	U	ug/L	42	1	06/28/18 17:16	06/19/18	
Potassium	6010C	**2130**		ug/L	420	1	06/28/18 17:16	06/19/18	
Selenium	6020A	ND	U	ug/L	1.0	1	07/02/18 17:21	06/19/18	
Silver	6020A	ND	U	ug/L	0.020	1	07/02/18 17:21	06/19/18	
Sodium	6010C	**2720**		ug/L	210	1	06/28/18 17:16	06/19/18	
Thallium	6020A	**0.022**		ug/L	0.020	1	07/02/18 17:21	06/19/18	
Vanadium	6020A	ND	U	ug/L	0.20	1	07/02/18 17:21	06/19/18	
Zinc	6020A	**10.0**		ug/L	2.0	1	07/02/18 17:21	06/19/18	

Exhibit 14 - Photos of the DMEA Seeps

"The DMEA adit seep (YP-AS-6) emerges at the base of the collapsed DMEA adit, located at the northwest corner of the DMEA wasterock dump (see photos in Appendix G). It flows east down the dump for about ten feet then infiltrates into the subsurface before reaching the former access road. The seep flows year-round and onsite flow measurements have ranged from 4.5x10-4 cfs in January 2014 to 2.0x10-2 cfs in May 2012 with a median flow of 3.4x10-3 cfs." (Surface Water Quality Baseline Study, pg. 4-215)

Figure 14A. Photo of the DMEA Adit Seep (YP-AS-6) from the Surface Water Quality Baseline Study, Appendix G, June 2012 Site Photos, page 4. Photo caption reads, "YP-AS-6, DMEA adit seep. Looking east and downstream from adit, June 2012."

Figure 14B. Photo of the DMEA Adit Seep (YP-AS-6) from the Surface Water Quality Baseline Study, Appendix G, June 2012 Site Photos, page 4. Photo caption reads, “YP-AS-6, DMEA adit seep. Looking east and downstream at seep infiltrating into the subsurface below adit, June 2012.”

Figure 14C. Photo of the DMEA Adit Seep (YP-AS-6) from the Surface Water Quality Baseline Study, Appendix G, June 2012 Site Photos, page 4. Photo caption reads, “YP-AS-6, DMEA adit seep. Looking east down dry slope of DMEA wasterock dump, close-up, at seep (YP-T-17) emerging at bottom, May 2012.”

"The DMEA wasterock seep (YP-T-17) originates at the toe of the DMEA wasterock dump, about 150 feet east and downhill from the DMEA adit. The wasterock seep flows to the east, towards FS 412, where it is joined by a second tributary that flows south of the DMEA dump (see photos in Appendix G). Together, these two sources flow north next to FS 412 and into a settling pond, and are joined by a second tributary that originates on the DMEA hillside. The three sources flow into a culvert under FS 412, and then down a steep hill to the east before flowing into the EFSFSR. Thus, the DMEA wasterock seep, as part of a larger flow, flows into the EFSFSR year-round." (Surface Water Quality Baseline Study, pg. 4-219)

Figure 14D. Photo of the DMEA Wasterock Seep (YP-T-17) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 15. Photo caption reads, "YP-T-17, DMEA wasterock seep. Looking west and upstream, with DMEA wasterock dump visible in back left, and tributary at front, May 2012."

Figure 14E. Photo of the DMEA Wasterock Seep (YP-T-17) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 15. Photo caption reads, “YP-T-17, DMEA wasterock seep. Looking southwest and upstream at seep (right) joining tributary (left), May 2012.”

Figure 14F. Photo of the DMEA Wasterock Seep (YP-T-17) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 16. Photo caption reads, “YP-T-17, DMEA wasterock seep. Looking east and downstream at flow emerging on east side of FS 412 and cascading towards EFSFSR, May 2012.”

Figure 14G. Photo of the DMEA Wasterock Seep (YP-T-17) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 17. Photo caption reads, “YP-T-17, DMEA wasterock seep. Looking south and upstream at flow entering EFSFSR (flows downstream to left), May 2012.”

Exhibit 15 - Water Quality Data from the DMEA Seeps

Table 15A. Summary statistics of data collected from the DMEA Adit Seep (YP-AS-6) and the DMEA Wasterock Seep (YP-T-17) (Surface Water Quality Baseline Study, Appendix E, pages 27-32 and 219-224). Data was collected from May, 2012 to February, 2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)									
µg/L	**Aluminum**	**Antimony**		**Arsenic**		**Iron**	**Manganese**		**Mercury, ng/L**
	Total	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**	**Dissolved**	**Total**	**Total**
DMEA Adit Seep (YP-AS-6)									
Minimum	0.0	14.0	14.8	195.0	192.0	0.0	0.0	0.0	1.1
Maximum	68.2	26.7	26.1	326.0	314.0	214.0	12.4	86.1	7.7
Average	12.1	22.1	22.0	239.7	242.5	44.2	1.3	10.1	3.4
Median	5.4	23.2	23.4	232.0	244.0	29.0	0.0	3.0	3.1
# Samples	19	19	19	19	19	19	19	19	19
DMEA Wasterock Seep (YP-T-17)									
Minimum	3.6	11.0	16.1	44.4	160.0	0.0	0.0	0.0	1.9
Maximum	3090	56.3	57.9	220.0	3230	24400	10.5	3620	353.0
Average	268.4	27.6	30.3	178.2	484.1	2196	3.0	304.4	39.0
Median	19.5	26.5	29.0	191.5	223.5	203.0	0.8	20.0	6.1
# Samples	16	16	16	16	16	16	16	16	16

YP-AS-6

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-AS-6	5	2012	2.0E-02	--	0	--	0.304	--	8.2	--	7.3	--	9.3	--	2.8	--	102	--	21.1	--	3.6	--
YP-AS-6	6	2012	7.3E-03	--	NM	--	0.338	--	8.1	--	7.0	--	7.6	--	3.9	--	NM	--	NM	--	NM	--
YP-AS-6	7	2012	7.7E-03	--	NM	--	0.370	--	8.2	--	7.1	--	11.1	--	11	--	NM	--	NM	--	NM	--
YP-AS-6	8	2012	6.5E-03	--	0	--	0.377	--	8.9	--	7.5	--	11.8	--	1.3	--	140	--	10.2	--	< 2.0	U
YP-AS-6	9	2012	6.4E-03	--	NM	--	0.382	--	8.5	--	7.4	--	8.2	--	0.4	--	NM	--	NM	--	NM	--
YP-AS-6	10	2012	5.0E-03	--	NM	--	0.437	--	8.9	--	7.3	--	6.8	--	1.2	--	NM	--	NM	--	NM	--
YP-AS-6	11	2012	4.0E-03	--	0	--	0.396	--	8.6	--	8.3	--	6.6	--	1.4	--	147	--	9	--	2.4	--
YP-AS-6	2	2013	1.8E-03	--	0	--	0.134	--	8.6	--	7.6	--	6.0	--	46	--	149	--	31.6	--	< 2.0	U
YP-AS-6	3	2013	4.0E-03	--	NM	--	0.367	--	8.1	--	7.5	--	6.1	--	1.5	--	NM	--	NM	--	NM	--
YP-AS-6	4	2013	3.3E-03	--	NM	--	0.306	--	8.7	--	7.8	--	6.2	--	3.4	--	NM	--	NM	--	NM	--
YP-AS-6	5	2013	7.5E-03	--	0	--	0.328	--	7.7	--	7.2	--	7.0	--	0.2	--	123	--	4.9	--	< 2.0	U
YP-AS-6	6	2013	3.4E-03	--	NM	--	0.360	--	7.6	--	7.1	--	8.6	--	1.2	--	NM	--	NM	--	NM	--
YP-AS-6	7	2013	6.1E-03	--	NM	--	0.367	--	8.5	--	7.2	--	10.0	--	2.2	--	NM	--	NM	--	NM	--
YP-AS-6	8	2013	1.8E-03	--	0	--	0.374	--	8.2	--	7.3	--	10.8	--	0.8	--	146	--	6.2	J	< 2.0	U
YP-AS-6	9	2013	2.8E-03	--	NM	--	0.370	--	8.5	--	7.3	--	10.0	--	1.1	--	NM	--	NM	--	NM	--
YP-AS-6	10	2013	7.4E-04	--	NM	--	0.371	--	8.9	--	7.4	--	8.2	--	1.4	--	NM	--	NM	--	NM	--
YP-AS-6	11	2013	2.3E-03	--	0	--	0.381	--	9.3	--	7.3	--	6.9	--	3.4	--	151	--	3.3	--	< 2.0	U
YP-AS-6	12	2013	4.7E-04	--	NM	--	0.399	--	9.1	--	7.6	--	5.8	--	2.9	--	NM	--	NM	--	NM	--
YP-AS-6	1	2014	4.5E-04	--	NM	--	0.369	--	9.3	--	6.9	--	4.2	--	8.8	--	NM	--	NM	--	NM	--
YP-AS-6	3	2014	3.5E-03	--	NM	--	0.372	--	8.7	--	7.6	--	6.3	--	7.9	--	NM	--	NM	--	NM	--
YP-AS-6	4	2014	8.2E-03	--	NM	--	0.287	--	9.1	--	7.2	--	6.9	--	14	--	NM	--	NM	--	NM	--
YP-AS-6	5	2014	1.8E-03	--	0	--	0.307	--	8.6	--	7.2	--	6.8	--	4.6	--	114	--	10.3	--	< 2.0	U
YP-AS-6	6	2014	1.2E-02	--	NM	--	0.317	--	8.5	--	7.0	--	6.9	--	1.4	--	NM	--	NM	--	NM	--
YP-AS-6	7	2014	1.4E-02	--	NM	--	0.356	--	8.4	--	6.9	--	9.7	--	0.9	--	NM	--	NM	--	NM	--
YP-AS-6	8	2014	9.7E-03	--	0	--	0.361	--	9.0	--	7.4	--	9.7	--	0.3	--	147	--	5.1	--	< 2.0	U
YP-AS-6	11	2014	3.2E-03	--	0	--	0.375	--	8.9	--	7.2	--	6.3	--	6.1	--	153	--	9.4	--	< 2.0	U
YP-AS-6	2	2015	2.7E-03	--	0	--	0.352	--	8.9	--	7.8	--	6.4	--	3.2	--	143	--	68.2	--	5.3	--
YP-AS-6	5	2015	2.9E-03	--	0	--	0.358	--	8.5	--	7.2	--	9.0	--	2.9	--	138	--	3.4	--	< 2.0	U
YP-AS-6	8	2015	1.5E-03	--	0	--	0.278	--	9.1	--	7.3	--	7.8	--	1.9	--	149	--	2.9	--	< 2	U
YP-AS-6	11	2015	1.3E-03	--	0	--	0.377	--	9.1	--	7.7	--	6.1	--	21	--	147	--	2.6	--	2.4	--
YP-AS-6	2	2016	6.2E-04	--	0	--	0.384	--	9.6	--	7.4	--	7.0	--	0.2	--	146	--	5.4	--	3	--

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-AS-6

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	18.2	- -	18.9	- -	1.3	- -	314	- -	326	- -	31	J+	32.3	J+	0.03	- -	< 0.02	U	102	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	24.6	- -	25.2	- -	1.5	- -	254	- -	250	- -	40.8	- -	40.1	- -	< 0.02	U	< 0.02	U	140	- -	< 10.0	U	< 10.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	26.1	- -	26.7	- -	1	- -	252	- -	249	- -	43.5	- -	44.5	- -	0.02	J+	0.02	- -	147	- -	< 50.0	U	< 50.0	U
< 0.050	U	26	- -	25.5	- -	0.65	- -	246	- -	227	- -	47.3	- -	42.1	- -	0.06	- -	< 0.02	U	149	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	17.3	- -	17.2	- -	0.49	- -	299	- -	296	- -	34.6	- -	34.6	- -	0.03	J	< 0.02	U	123	- -	< 20.0	UJ	< 20.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	25.8	- -	26.1	- -	0.8	- -	244	- -	235	- -	42.2	- -	43.7	- -	< 0.02	U	< 0.02	U	146	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	23.4	- -	23.8	- -	0.67	- -	215	- -	214	- -	41.3	- -	42.7	- -	< 0.02	U	< 0.02	U	151	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	14.8	- -	14	- -	0.809	- -	299	- -	293	- -	30.8	- -	29.1	- -	< 0.02	U	< 0.02	U	114	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	21.6	- -	21.8	- -	0.31	- -	208	- -	212	- -	39.2	- -	39.4	- -	< 0.02	U	< 0.02	U	147	- -	< 20.0	U	< 20.0	U
< 0.050	U	23.4	- -	23.2	- -	0.33	- -	212	- -	206	- -	43.3	- -	42.3	- -	0.02	J+	< 0.02	U	153	- -	< 20.0	U	< 20.0	U
< 0.050	U	24.3	- -	24.5	- -	0.36	- -	240	- -	232	- -	40.3	- -	38.7	- -	0.05	- -	< 0.02	U	143	- -	< 20.0	UJ	< 20.0	UJ
< 0.050	U	19.4	- -	19	- -	0.46	- -	257	- -	252	- -	38	- -	39	- -	< 0.02	U	< 0.02	U	138	- -	< 20.0	U	< 20.0	U
< 0.05	U	23.2	- -	22.8	- -	0.51	- -	204	- -	210	- -	38.8	- -	40	- -	< 0.02	U	< 0.02	U	149	- -	< 20	U	< 21.3	U
< 0.05	U	23.7	- -	23.5	- -	0.4	- -	197	- -	195	- -	40.3	- -	40	- -	< 0.02	U	< 0.02	U	147	- -	< 20	U	< 20	U
< 0.05	U	24	- -	24.3	- -	0.29	- -	192	- -	195	- -	39.9	- -	40.7	- -	< 0.02	U	< 0.02	U	146	- -	< 20	U	< 20	U

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	39500	- -	39200	- -	< 9.0	U	0.41	- -	< 0.2	U	0.4	J+	0.05	J+	0.04	J+	0.5	- -	0.4	J	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	50500	- -	51300	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.04	J+	0.04	J+	0.6	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	53000	- -	53300	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.6	- -	0.5	- -	< 0.0047	U
0.03	J+	< 0.02	U	51500	- -	49600	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.2	J+	0.11	J+	2.2	J+	0.5	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	47300	- -	46800	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.02	J+	< 0.02	U	49300	- -	49400	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.5	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	52000	- -	52800	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.3	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	40300	- -	40900	- -	< 15	U	0.47	- -	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	49900	- -	49300	- -	< 15	U	< 0.40	U	< 0.2	U	0.5	J+	0.05	J+	0.05	J+	0.3	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	51300	- -	50500	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	0.06	- -	0.05	- -	0.6	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	47200	- -	47000	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	0.03	J+	< 0.02	U	1	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	47000	- -	46000	- -	< 15	U	< 0.40	U	0.2	J+	< 0.2	U	< 0.02	U	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	52700	- -	52600	- -	< 15	U	< 0.4	U	< 0.2	U	< 0.2	U	0.036	- -	0.041	- -	0.31	- -	0.4	- -	< 0.0047	U
< 0.02	U	< 0.02	U	48500	- -	47500	- -	< 15	U	0.25	- -	< 0.2	U	< 0.2	U	0.16	J+	0.16	J+	0.5	J+	0.5	J+	< 0.0047	U
< 0.02	U	< 0.02	U	51900	- -	51000	- -	< 15	U	0.28	- -	< 0.2	U	< 0.2	U	0.09	- -	0.09	- -	0.9	- -	0.4	- -	< 0.0047	U

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	135	- -	56.3	- -	30	- -	0.04	J+	< 0.02	U	8890	- -	8810	- -	13.8	- -	12.4	- -	6.9	J+	1.8	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	173	- -	66	- -	31.2	- -	0.1	J+	< 0.02	U	11300	- -	12300	- -	10.2	J-	6.6	J-	5.2	- -	1.7	- -	0.15	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	188	- -	43.6	- -	25.3	- -	0.06	J+	< 0.02	U	13600	- -	13700	- -	9.1	J-	< 5.0	UJ	3.4	- -	2.6	J+	0.15	- -
< 0.40	U	182	- -	214	- -	< 20.0	U	1.3	- -	< 0.02	U	13000	- -	12900	- -	86.1	- -	< 5.0	U	3.6	- -	< 1.0	U	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	162	- -	22.2	- -	< 20.0	U	< 0.02	U	< 0.02	U	10600	- -	10600	- -	3	- -	1.1	- -	2.2	- -	< 1.0	UJ	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.24	- -	172	- -	39.6	- -	27	- -	0.03	J+	< 0.02	U	12000	- -	12200	- -	3.4	- -	2.4	- -	3.1	- -	1.1	- -	0.1	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	182	- -	< 20.0	U	< 20.0	U	0.02	J+	< 0.02	U	12700	- -	12600	- -	1.5	J+	< 1.0	U	4.8	- -	1.3	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	139	- -	21.2	- -	< 20.0	U	0.03	J+	< 0.02	U	9290	J	9530	J	2.1	- -	< 1.0	U	4	- -	1.2	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.24	- -	176	- -	< 20.0	U	< 20.0	U	< 0.02	U	0.02	J+	12400	- -	12400	- -	1.1	J+	< 1.0	U	1.5	- -	1.1	- -	< 0.1	U
0.24	- -	180	- -	45.5	- -	< 20.0	U	0.13	J+	< 0.02	U	12700	- -	12800	- -	5.6	- -	< 1.0	UJ	4.1	- -	1.3	- -	< 0.1	U
0.21	- -	166	- -	107	- -	< 20.0	U	0.19	J+	< 0.02	U	11700	- -	11400	- -	16.3	J-	< 1.0	UJ	6.9	- -	1.4	- -	< 0.1	U
0.2	- -	164	- -	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	11400	- -	11100	- -	1.7	J-	< 1.0	UJ	1.9	- -	1	- -	< 0.1	U
0.25	- -	186	- -	< 40	U	< 42.6	U	< 0.02	U	< 0.02	U	13200	- -	13000	- -	1.1	- -	< 1.1	U	1.6	- -	0.9	- -	< 0.1	U
0.25	- -	174	- -	< 20	U	< 20	U	< 0.02	U	< 0.02	U	13000	- -	12400	- -	1.4	- -	< 1	U	1.1	- -	1	- -	< 0.1	U
0.26	- -	187	- -	73.2	- -	< 20	U	< 0.02	U	< 0.02	U	14000	- -	13800	- -	< 4	U	< 4	U	1.4	- -	1.4	- -	< 0.1	U

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
3.73	- -	3.99	- -	0.4	J+	0.6	J	< 0.050	U	0.41	- -	0.41	- -	< 20.0	U	< 20.0	U	1140	- -	1120	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.65	- -	3.74	- -	0.5	J+	0.5	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	1370	- -	1390	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.94	J+	3.8	J+	< 0.2	U	0.2	J+	< 0.050	U	0.4	- -	0.4	- -	< 20.0	UJ	< 20.0	UJ	1560	- -	1560	- -	< 1.0	U	< 1.0	U
4.02	- -	3.96	- -	0.9	J+	0.7	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 20.0	U	< 20.0	U	1490	- -	1480	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.87	- -	3.98	- -	< 0.20	U	< 0.20	U	< 0.050	U	0.43	- -	0.43	- -	< 40.0	U	< 40.0	U	1240	- -	1210	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
4.29	- -	4.17	- -	< 0.20	U	< 0.20	U	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	1350	- -	1350	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
4.03	- -	3.99	- -	< 0.20	U	< 0.20	U	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	1370	- -	1390	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.74	- -	3.83	- -	< 0.2	U	< 0.2	U	< 0.050	U	1.42	J+	1.42	J+	< 40.0	UJ	< 40.0	UJ	1100	- -	1090	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.62	- -	3.52	- -	0.5	J+	0.6	J+	< 0.050	U	0.56	J+	0.56	J+	< 40.0	U	< 40.0	U	1350	- -	1360	- -	< 1.0	U	< 1.0	U
3.48	- -	3.4	- -	0.5	J+	0.5	J+	< 0.050	U	0.47	- -	0.46	- -	< 40.0	U	< 40.0	U	1450	- -	1400	- -	< 1.0	U	< 1.0	U
3.81	- -	3.74	- -	< 0.2	U	< 0.2	U	< 0.050	U	0.85	J+	0.85	J+	< 40.0	U	< 40.0	U	1390	- -	1350	- -	< 1.0	U	< 1.0	U
4.31	- -	4.27	- -	< 0.2	U	< 0.2	U	< 0.050	U	< 0.45	U	0.41	- -	< 40.0	U	< 40.0	U	1200	- -	1150	- -	< 1.0	U	< 1.0	U
3.85	J+	4.03	J+	0.41	- -	0.46	- -	< 0.05	U	0.92	- -	0.92	- -	< 40	U	< 42.6	U	1390	- -	1390	- -	< 1	U	< 1	U
3.84	- -	3.86	- -	0.8	J+	0.8	J+	< 0.05	U	0.56	J+	0.56	J+	< 40	U	< 40	U	1320	- -	1260	- -	< 1	UJ	< 1	UJ
3.86	- -	3.92	- -	0.5	- -	0.5	- -	< 0.05	U	0.62	- -	0.62	J+	< 40	U	< 40	U	1440	- -	1440	- -	< 1	U	< 1	U

YP-AS-6

Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
0.022	J+	< 0.020	U	4990	- -	4960	- -	194	- -	< 5.0	U	40.1	- -	0.02	J+	< 0.02	U	< 0.2	U	< 0.2	U	4.2	J+	4.3	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.04	U	< 0.04	U	5450	- -	6020	- -	217	- -	< 5.0	U	44.2	- -	0.02	J+	0.02	J+	< 0.2	U	< 0.2	U	4.6	J+	4.4	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	6430	- -	6530	- -	226	- -	< 5.0	U	51.8	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	9.7	- -	8.7	- -
0.03	- -	< 0.02	U	5970	- -	5950	- -	226	- -	< 5.0	U	45.3	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	11.5	- -	3.9	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	4380	- -	4330	- -	196	- -	< 5.0	U	38.1	- -	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	2	J+	2.3	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	5620	- -	5710	- -	226	- -	< 5.0	U	43.6	- -	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	5.8	- -	5.4	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	5350	- -	5380	- -	215	- -	< 5.0	U	48.3	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	5.1	- -	6.1	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	3630	- -	3730	- -	186	- -	< 5.0	U	41.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.7	J+	1.8	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	4790	- -	4880	- -	34	- -	< 5.0	U	42	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	2.1	J+	2.6	J+
< 0.02	U	< 0.02	U	5050	- -	5030	- -	245	J	< 5.0	U	43.4	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	9.4	- -	9.9	- -
< 0.02	U	< 0.02	U	4470	- -	4530	- -	198	- -	< 5.0	U	37.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	3.7	J+	3	J+
< 0.02	U	< 0.02	U	4670	- -	4470	- -	206	- -	< 5.0	U	39.4	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	2.8	J+	2.8	J+
< 0.02	U	< 0.02	U	4960	- -	4790	- -	223	- -	< 5	U	41.4	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	4.1	- -	3.3	- -
< 0.02	U	< 0.02	U	4840	- -	4650	- -	194	- -	< 5	U	40.1	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	3.3	J+	3	J+
< 0.02	U	< 0.02	U	5560	- -	5440	- -	199	- -	< 5	U	42.8	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	4.3	- -	3.7	- -

Site	Sampling Event		Flow		Color		Conductivity		Dissolved oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-T-17	5	2012	3.31E-02	--	0	--	0.179	--	6.7	--	7.4	--	9.5	--	1.9	--	49.2	--	6.6	--	< 2.0	U
YP-T-17	6	2012	1.15E-02	--	NM	--	0.234	--	7.8	--	7.0	--	7.8	--	3.0	--	NM	--	NM	--	NM	--
YP-T-17	7	2012	5.18E-03	--	NM	--	0.306	--	7.9	--	7.2	--	13.7	--	4.6	--	NM	--	NM	--	NM	--
YP-T-17	8	2012	4.68E-03	--	0	--	0.334	--	8.1	--	7.6	--	12.5	--	1.4	--	115	--	42.6	--	< 2.0	U
YP-T-17	9	2012	3.11E-03	--	NM	--	0.353	--	8.7	--	7.6	--	8.8	--	0.6	--	NM	--	NM	--	NM	--
YP-T-17	10	2012	2.92E-03	--	NM	--	0.401	--	6.8	--	7.3	--	5.5	--	1.9	--	NM	--	NM	--	NM	--
YP-T-17	11	2012	4.62E-03	--	0	--	0.371	--	9.5	--	8.4	--	4.8	--	2.8	--	116	--	7.7	--	2	--
YP-T-17	12	2012	6.73E-03	--	NM	--	0.359	--	11.7	--	7.6	--	2.0	--	3.7	--	NM	--	NM	--	NM	--
YP-T-17	1	2013	4.95E-03	--	NM	--	0.299	--	10.3	--	7.8	--	2.3	--	11	--	NM	--	NM	--	NM	--
YP-T-17	2	2013	6.35E-03	--	0	--	0.318	--	10.5	--	7.9	--	1.6	--	3.1	--	106	--	17.3	J	< 2.0	U
YP-T-17	3	2013	1.18E-02	--	NM	--	0.294	--	10.2	--	7.9	--	1.9	--	4.1	--	NM	--	NM	--	NM	--
YP-T-17	4	2013	2.12E-02	--	NM	--	0.294	--	9.8	--	7.7	--	3.3	--	1.5	--	NM	--	NM	--	NM	--
YP-T-17	5	2013	5.97E-02	--	0	--	0.183	--	8.8	--	7.0	--	8.6	--	0.0	--	46.4	--	5.7	--	4	--
YP-T-17	6	2013	1.40E-02	--	NM	--	0.255	--	7.6	--	7.2	--	11.1	--	0.1	--	NM	--	NM	--	NM	--
YP-T-17	7	2013	8.96E-03	--	NM	--	0.292	--	8.0	--	7.1	--	10.5	--	2.3	--	NM	--	NM	--	NM	--
YP-T-17	8	2013	4.23E-03	--	0	--	0.332	--	8.2	--	7.2	--	10.6	--	4.3	--	116	--	6.5	--	< 2.0	U
YP-T-17	9	2013	4.89E-03	--	NM	--	0.322	--	8.3	--	7.1	--	9.8	--	2.4	--	NM	--	NM	--	NM	--
YP-T-17	10	2013	9.26E-03	--	NM	--	0.368	--	9.3	--	7.5	--	5.1	--	2.1	--	NM	--	NM	--	NM	--
YP-T-17	11	2013	5.75E-03	--	0	--	0.334	--	9.7	--	7.3	--	3.8	--	3.2	--	113	--	12.7	--	< 2.0	U
YP-T-17	12	2013	6.89E-03	--	NM	--	0.304	--	11.0	--	7.5	--	1.4	--	4.5	--	NM	--	NM	--	NM	--
YP-T-17	1	2014	8.76E-03	--	NM	--	0.248	--	11.5	--	7.3	--	1.9	--	3.7	--	NM	--	NM	--	NM	--
YP-T-17	2	2014	6.20E-03	--	0	--	0.294	--	9.4	--	7.3	--	2.8	--	7.7	--	95	--	3.6	J+	< 2	U
YP-T-17	3	2014	7.14E-03	--	NM	--	0.237	--	10.8	--	7.4	--	2.4	--	3.7	--	NM	--	NM	--	NM	--
YP-T-17	4	2014	0.10	--	NM	--	0.222	--	10.0	--	7.2	--	4.2	--	3.3	--	NM	--	NM	--	NM	--
YP-T-17	5	2014	0.12	--	0	--	0.171	--	9.8	--	6.9	--	5.8	--	1.1	--	37	--	24.8	--	23.3	--
YP-T-17	6	2014	2.87E-02	--	NM	--	0.212	--	9.4	--	6.8	--	5.2	--	2.0	--	NM	--	NM	--	NM	--
YP-T-17	7	2014	1.65E-02	--	NM	--	0.241	--	7.6	--	6.7	--	11.7	--	5.1	--	NM	--	NM	--	NM	--
YP-T-17	8	2014	9.09E-03	--	0	--	0.277	--	7.9	--	7.0	--	10.6	--	2.8	--	99	--	21.6	--	2.3	--
YP-T-17	11	2014	3.69E-04	--	0	--	0.326	--	10.0	--	7.4	--	4.2	--	116	--	112	--	717	--	< 2.0	U
YP-T-17	2	2015	4.33E-03	--	0	--	0.290	--	10.3	--	7.8	--	2.5	--	12	--	94	--	151	--	2.1	--
YP-T-17	5	2015	1.16E-02	--	0	--	0.257	--	9.6	--	7.3	--	5.5	--	3.7	--	65	--	7.3	--	2.5	--
YP-T-17	8	2015	NA	--	0	--	0.336	--	7.9	--	7.1	--	10.2	--	78	--	137	--	3090	--	3.9	--
YP-T-17	11	2015	5.33E-04	--	0	--	0.349	--	9.4	--	7.4	--	2.9	--	235	--	117	--	151	--	3.7	--
YP-T-17	2	2016	1.24E-03	--	0	--	0.353	--	10.4	--	7.4	--	2.2	--	43	--	114	--	29.3	--	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	30.9	--	30.4	--	0.79	--	225	--	44.4	--	17.5	J+	17.6	J+	< 0.02	U	< 0.02	U	49.2	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	17.9	--	17.8	--	1.83	--	288	--	212	--	43.2	--	39.6	--	0.03	--	< 0.02	U	115	--	< 10.0	U	< 10.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	24.7	--	24.6	--	2.9	--	199	--	193	--	39.7	--	39.6	--	< 0.02	U	< 0.02	U	116	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	29.4	--	29.1	--	0.89	--	231	--	196	--	33.3	--	31.8	--	< 0.02	U	< 0.02	U	106	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	45.7	--	46.7	--	0.3	--	213	--	213	--	16.9	--	17.3	--	< 0.02	U	< 0.02	U	46.4	--	< 20.0	UJ	< 20.0	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	21.2	--	21.6	--	3	--	222	--	210	--	43.3	--	43.6	--	< 0.02	U	< 0.02	U	116	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	28.5	--	28.3	--	1.63	--	215	--	172	--	37.7	--	36.2	--	< 0.02	U	< 0.02	U	113	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.05	U	29.9	--	30.3	--	0.71	None	174	--	172	--	24.7	--	25.4	--	< 0.02	U	< 0.02	U	88	J	< 20	U	< 20	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	57.9	--	56.3	--	0.648	--	215	--	220	--	13.4	J+	13	J+	< 0.02	U	< 0.02	U	37	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	22.3	--	22.8	--	1.4	--	256	--	208	--	33.1	--	31.7	--	< 0.02	U	< 0.02	U	99	--	< 20.0	U	< 20.0	U
< 0.050	U	27.5	--	20.6	--	1.7	--	1230	--	161	--	97.9	--	35.4	--	0.38	--	< 0.02	U	112	--	< 20.0	U	< 20.0	U
< 0.050	U	30.6	--	30	--	1	--	381	--	190	--	40.8	--	28.1	--	0.09	--	< 0.02	U	94	--	< 20.0	UJ	< 20.0	UJ
< 0.050	U	36.8	--	36.5	--	0.6	--	190	--	179	--	24.9	--	25.4	--	< 0.02	U	< 0.02	U	65	--	< 20.0	U	< 20.0	U
< 0.05	U	41.8	--	11	--	5.79	--	3230	--	210	--	335	--	47	--	2.27	--	< 0.02	U	137	--	< 20	U	< 21.3	U
< 0.05	U	16.1	--	14.2	--	1.2	--	317	--	149	--	49.1	--	37.5	--	0.11	--	< 0.02	U	117	--	< 20	U	< 20	U
< 0.05	U	23.2	--	22.1	--	0.8	--	160	--	121	--	37.2	--	36.2	--	< 0.02	U	< 0.02	U	114	--	< 20	U	< 20	U

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	20900	--	21000	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.02	J+	< 0.02	U	0.2	--	< 0.1	U	< 0.010	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	44200	--	45800	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.12	J+	0.05	J+	0.4	J+	0.3	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	47900	--	48200	--	< 9.0	U	0.58	--	0.4	J+	< 0.2	U	0.02	J+	< 0.02	U	0.2	--	0.2	--	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	42100	--	40300	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.13	J+	0.09	J+	0.4	J+	0.4	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	21900	--	22000	--	< 9.0	U	< 0.40	U	0.5	J+	0.6	J+	< 0.02	U	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	42200	--	42600	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.02	J+	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	42800	--	42900	--	< 15	U	0.48	--	< 0.2	U	< 0.2	U	0.03	J+	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	34000	--	33100	J	< 15	U	< 0.4	U	< 0.2	U	< 0.2	U	0.06	J+	0.06	J+	0.2	J+	0.3	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	18900	--	19000	--	< 15	U	0.42	--	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.3	J+	0.3	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	35000	--	34800	--	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	0.07	J+	0.04	J+	0.3	J+	0.2	J+	< 0.0047	U
0.05	J+	< 0.02	U	45700	--	43400	--	< 15	U	0.68	--	0.4	J+	< 0.2	U	1.31	J+	0.04	J+	3	--	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	36400	--	37200	--	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	0.32	J+	< 0.02	U	0.8	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	29500	--	29200	--	< 15	U	< 0.40	UJ	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
0.236	--	< 0.02	U	62400	--	52200	--	< 15	U	< 0.4	U	1.45	--	< 0.2	U	5.73	--	0.048	--	11.8	--	0.34	--	< 0.0047	U
< 0.02	U	< 0.02	U	43100	--	44400	--	< 15	U	0.48	--	< 0.2	U	< 0.2	U	0.42	J+	0.15	J+	1	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	44800	--	44100	--	< 15	U	0.34	--	< 0.2	U	< 0.2	U	0.14	--	0.08	--	0.3	--	0.3	--	< 0.0047	U

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	73.4	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	5140	--	5310	--	< 5.0	U	< 5.0	U	4	--	2	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	152	--	430	--	< 20.0	U	0.05	J+	< 0.02	U	9990	--	10200	--	59.5	J-	10.5	J-	8	--	1.7	--	0.22	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	169	--	52.9	--	< 20.0	U	< 0.02	U	< 0.02	U	11900	--	11900	--	11.7	J-	8.6	J-	3.4	--	4.7	J+	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	149	--	195	--	< 20.0	U	0.03	J+	< 0.02	U	10700	--	10800	--	22.3	--	< 5.0	U	11.1	J	1.1	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	75.3	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	5000	--	5000	--	1.3	--	< 1.0	U	3.3	--	2.8	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	149	--	80.4	--	< 20.0	U	< 0.02	U	< 0.02	U	10600	--	10700	--	16.2	--	10.2	--	4	--	2.1	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	152	--	211	--	< 20.0	U	< 0.02	U	< 0.02	U	11000	--	10900	--	17.7	--	5	--	5	--	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.2	U	120	--	49.8	--	< 20	U	< 0.02	U	< 0.02	U	8480	--	8440	--	6.3	J	1.9	J+	3.5	J	2.3	J	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	66.6	--	36.3	--	< 20.0	U	< 0.02	U	< 0.02	U	4720	J	4750	J	1	J+	< 1.0	U	7.1	--	3.9	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	124	--	300	--	< 20.0	U	0.03	J+	< 0.02	U	8780	--	8750	--	30.6	--	4.1	--	1.9	--	1.9	--	< 0.1	U
< 0.20	U	161	--	6630	--	< 20.0	U	1.03	--	< 0.02	U	11400	J	11300	--	678	--	< 1.0	UJ	67.3	--	1.8	J+	0.22	--
< 0.20	U	130	--	1210	--	< 20.0	U	0.17	J+	< 0.02	U	9470	--	9400	--	184	--	< 1.0	UJ	57.7	--	1.4	--	0.1	--
< 0.20	U	104	--	47.7	--	< 20.0	U	< 0.02	U	< 0.02	U	7320	--	7280	--	4.7	J-	< 1.0	UJ	3.2	--	1.8	--	< 0.1	U
< 0.2	U	216	--	24400	--	< 42.6	U	2.98	--	< 0.02	U	14700	--	12900	--	3620	--	1.5	--	353	--	3	--	2.9	--
< 0.2	U	156	--	1220	--	23.7	--	0.17	J+	< 0.02	U	11800	--	11300	--	178	--	6.4	--	81	--	2.1	--	0.4	--
< 0.2	U	162	--	265	--	< 20	U	0.03	--	< 0.02	U	12200	--	12100	--	39.4	--	< 4	U	9.9	--	1.3	--	0.1	--

YP-T-17

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate+Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
1.85	--	2	--	0.2	J+	< 0.2	U	< 0.050	U	0.56	--	0.56	--	< 40.0	U	< 40.0	U	1020	--	1060	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.47	--	2.3	--	0.5	J+	0.4	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	1580	--	1620	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.64	J+	2.68	J+	0.2	J+	< 0.2	U	< 0.050	U	0.68	--	0.68	--	< 20.0	UJ	< 20.0	UJ	1960	--	1960	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.81	--	2.59	--	0.6	J+	0.6	J+	< 0.050	U	< 0.40	U	< 0.40	U	25.2	--	< 20.0	U	1600	--	1610	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.08	--	2.06	--	< 0.20	U	0.27	--	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	1110	--	1120	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.45	--	2.51	--	< 0.20	U	< 0.20	U	< 0.050	U	NM	--	0.42	J+	< 40.0	UJ	< 40.0	UJ	1780	--	1770	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.63	--	2.49	--	< 0.20	U	< 0.20	U	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	1710	--	1670	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.14	J+	2.1	J+	0.3	J+	0.4	J+	< 0.05	U	0.62	--	0.62	--	< 40	UJ	< 40	UJ	1330	--	1340	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.44	--	1.47	--	< 0.2	U	< 0.2	U	< 0.050	U	1.12	J+	1.12	J+	< 40.0	UJ	< 40.0	UJ	935	--	929	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
2.14	--	2.13	--	0.4	J+	0.4	J+	< 0.050	U	0.45	J+	0.45	J+	< 40.0	U	< 40.0	U	1380	--	1380	--	< 1.0	U	< 1.0	U
1.95	--	1.79	--	1.2	J+	0.3	J+	< 0.050	U	1.06	J	1.05	J	330	--	< 40.0	U	2230	--	1900	--	< 1.0	U	< 1.0	U
2.35	--	2.22	--	0.3	J+	< 0.2	U	< 0.050	U	0.74	J+	0.74	J+	59.1	--	< 40.0	U	1480	--	1420	--	< 1.0	U	< 1.0	U
2.39	--	2.36	--	< 0.2	U	< 0.2	U	< 0.050	U	< 0.45	U	0.44	--	< 40.0	U	< 40.0	U	1250	--	1240	--	< 1.0	U	< 1.0	U
3.12	J+	2.09	J+	5.51	--	0.45	--	< 0.05	U	2.44	--	2.44	--	924	--	< 42.6	U	3170	--	2130	--	1.3	--	< 1	U
1.75	--	1.78	--	0.9	J+	0.7	J+	< 0.05	U	0.93	J+	0.93	J+	63.8	--	< 40	U	1810	--	1770	--	< 1	UJ	< 1	UJ
1.76	--	1.73	--	0.5	--	0.5	--	< 0.05	U	0.82	--	0.8	J+	< 40	U	< 40	U	1740	--	1860	--	< 1	U	< 1	U

YP-T-17

Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.020	U	< 0.020	U	3340	--	3490	--	97	--	< 5.0	U	29.8	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.04	U	< 0.04	U	4920	--	5110	--	215	--	6.5	--	47.2	--	< 0.02	U	< 0.02	U	0.3	--	< 0.2	U	1.5	J+	0.8	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	UJ	< 0.02	U	5280	--	5290	--	211	--	< 5.0	U	61.2	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.7	J+	0.6	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	4840	--	4930	--	174	J	< 5.0	U	51.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1	--	0.8	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	2810	--	2910	--	110	--	< 5.0	U	30.6	--	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	0.5	J+	0.6	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	4740	--	4870	--	197	--	< 5.0	U	47.4	--	< 0.020	U	< 0.020	U	< 0.2	U	0.2	--	0.6	J+	0.8	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	4530	--	4530	--	183	--	< 5.0	U	57.9	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.8	J+	0.5	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3710	--	3760	--	157	J	< 5	U	39.3	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	2340	--	2380	--	104	--	< 5.0	U	38.8	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	2.7	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	3840	--	3890	--	134	--	< 5.0	U	34.4	--	< 0.02	U	< 0.02	U	0.2	--	< 0.2	U	1.1	J+	0.8	J+
0.075	J+	< 0.020	U	4100	--	4170	--	187	--	120	--	48.8	--	0.1	J+	< 0.02	U	2.2	--	< 0.2	U	17.1	--	0.8	J+
< 0.02	U	< 0.02	U	3680	--	3720	--	156	--	10.5	--	47.3	--	0.03	--	< 0.02	U	0.5	--	< 0.2	U	4.2	J+	0.7	J+
< 0.02	U	< 0.02	U	3100	--	3180	--	186	--	< 5.0	U	51.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
0.238	--	< 0.02	U	4750	--	4480	--	232	--	744	--	53.5	--	0.476	--	< 0.02	U	7.13	--	0.21	--	81.6	--	0.8	J+
< 0.02	U	< 0.02	U	4330	--	4210	--	177	--	56.5	--	51.5	--	0.03	--	< 0.02	U	0.4	--	< 0.2	U	5.2	--	1	J+
< 0.02	U	< 0.02	U	4510	--	4510	--	190	--	75.5	--	54.2	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.1	J+	0.6	--

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Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 13:30
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-6	**Basis:**	NA
Lab Code:	K1805697-005		

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	ND U	ug/L	4.0	1	07/02/18 13:20	06/19/18	
Antimony	6020A	**18.7**	ug/L	0.050	1	07/02/18 13:20	06/19/18	
Arsenic	6020A	**276**	ug/L	0.50	1	07/02/18 13:20	06/19/18	
Barium	6020A	**34.2**	ug/L	0.050	1	07/02/18 13:20	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 16:18	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Calcium	6010C	**43200**	ug/L	21	1	06/28/18 16:18	06/19/18	
Chromium	6020A	**0.27**	ug/L	0.20	1	07/02/18 13:20	06/19/18	
Cobalt	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Copper	6020A	**0.48**	ug/L	0.10	1	07/02/18 13:20	06/19/18	
Iron	6010C	ND U	ug/L	21	1	06/28/18 16:18	06/19/18	
Lead	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Magnesium	6010C	**10000**	ug/L	5.3	1	06/28/18 16:18	06/19/18	
Manganese	6010C	ND U	ug/L	1.1	1	06/28/18 16:18	06/19/18	
Molybdenum	6020A	**3.81**	ug/L	0.10	1	07/02/18 13:20	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/02/18 13:20	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 16:18	06/19/18	
Potassium	6010C	**1120**	ug/L	420	1	06/28/18 16:18	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/02/18 13:20	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Sodium	6010C	**3850**	ug/L	210	1	06/28/18 16:18	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/02/18 13:20	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/02/18 13:20	06/19/18	
Zinc	6020A	**2.7**	ug/L	2.0	1	07/02/18 13:20	06/19/18	

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Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 13:30
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-6	**Basis:**	NA
Lab Code:	K1805697-005		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**5.0**	ug/L	4.0	1	07/02/18 12:49	06/19/18	
Antimony	6020A	**18.6**	ug/L	0.050	1	07/02/18 12:49	06/19/18	
Arsenic	6020A	**278**	ug/L	0.50	1	07/02/18 12:49	06/19/18	
Barium	6020A	**34.3**	ug/L	0.050	1	07/02/18 12:49	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 15:45	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Calcium	6010C	**42900**	ug/L	21	1	06/28/18 15:45	06/19/18	
Chromium	6020A	ND U	ug/L	0.20	1	07/02/18 12:49	06/19/18	
Cobalt	6020A	ND U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Copper	6020A	**0.16**	ug/L	0.10	1	07/02/18 12:49	06/19/18	
Iron	6010C	ND U	ug/L	21	1	06/28/18 15:45	06/19/18	
Lead	6020A	ND U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Magnesium	6010C	**9860**	ug/L	5.3	1	06/28/18 15:45	06/19/18	
Manganese	6010C	ND U	ug/L	1.1	1	06/28/18 15:45	06/19/18	
Molybdenum	6020A	**3.97**	ug/L	0.10	1	07/02/18 12:49	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/02/18 12:49	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 15:45	06/19/18	
Potassium	6010C	**1110**	ug/L	420	1	06/28/18 15:45	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/02/18 12:49	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Sodium	6010C	**3790**	ug/L	210	1	06/28/18 15:45	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/02/18 12:49	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/02/18 12:49	06/19/18	
Zinc	6020A	**2.0**	ug/L	2.0	1	07/02/18 12:49	06/19/18	

ALS Group USA, Corp.
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Analytical Report

Client: Midas Gold Mine, Inc
Project: Midas Gold Mine
Sample Matrix: Water

Service Request: K1805697
Date Collected: 06/11-13/18
Date Received: 06/15/18

Mercury, Total

Prep Method: METHOD
Analysis Method: 1631E
Test Notes:

Units: ng/L
Basis: NA

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
YP-T-49	K1805697-001	0.5	1	06/18/18	06/19/18	9.6	
YP-T-40	K1805697-002	0.5	1	06/18/18	06/19/18	1.4	
YP-B-03	K1805697-003	0.5	1	06/18/18	06/19/18	ND	
YP-HP-51	K1805697-004	0.5	1	06/18/18	06/19/18	9.1	
YP-AS-6	K1805697-005	0.5	1	06/18/18	06/19/18	1.7	
YP-AS-3	K1805697-006	0.5	1	06/18/18	06/19/18	4.2	
YP-AS-7	K1805697-007	0.5	1	06/18/18	06/19/18	18.8	
YP-AS-4-DS	K1805697-008	0.5	1	06/18/18	06/19/18	5.6	
YP-AS-1-DS	K1805697-009	0.5	1	06/18/18	06/19/18	95.5	
YP-AS-1-US	K1805697-010	0.5	1	06/18/18	06/19/18	97	
Method Blank 1	K1805697-MB1	0.5	1	06/18/18	06/19/18	ND	
Method Blank 2	K1805697-MB2	0.5	1	06/18/18	06/19/18	ND	
Method Blank 3	K1805697-MB3	0.5	1	06/18/18	06/19/18	ND	

Exhibit 16 - Photos of the Bonanza Adit Seep

"The Bonanza adit seep (YP-AS-1) originates on the north side of FS 1883 approximately halfway between the upper (YP-T-8A) and middle (YP-T-7) Sugar Creek sites. The hillside has been excavated across its face by legacy exploration activities (Mitchell 2000) and the adit opening is not visible. The seep originates as a small pond on a bench approximately 75 feet uphill of FS 1883...The seep flows at a low volume year-round out of the pond, downhill, across the road, and onto the floodplain of Sugar Creek but has not been observed flowing into Sugar Creek via visible surface water flow." (Surface Water Quality Baseline Study, pg. 4-119)

Figure 16A. Photo of the Bonanza Adit Seep (YP-AS-1) from the Surface Water Quality Baseline Study, Appendix G, June 2012 Site Photos, page 1. Photo caption reads, "YP-AS-1, Bonanza Tunnel adit. Looking east and downstream at source with worked hillside visible in upper left, June 2012."

Figure 16B. Photo of the Bonanza Adit Seep (YP-AS-1) from the Surface Water Quality Baseline Study, Appendix G, May 2012 Site Photos, page 12. Photo caption reads, “YP-AS-1, Bonanza adit seep. Looking southwest at seep infiltrating into the subsurface on floodplain of Sugar Creek (in background, flows downstream to right), May 2012.”

Figure 16C. Photo of the Bonanza Adit Seep (YP-AS-1) from the Surface Water Quality Baseline Study, Appendix G, August 2012 Site Photos, page 12. Photo caption reads, "YP-AS-1, Bonanza adit seep. Looking south at seep-fed riparian area (center) with no flow into Sugar Creek (flows downstream to right). May 2013."

Figure 16D. Photo of the Bonanza Adit Seep (YP-AS-1) flowing across the FS road and onto the floodplain of Sugar Creek, from the Surface Water Quality Baseline Study, Appendix G, June 2013 Site Photos, page 1. Photo caption reads, “YP-AS-1, Bonanza adit seep. Looking south and downstream toward Sugar Creek (background, flows downstream to right). June 2013.”

Exhibit 17 - Water Quality Data from the Bonanza Adit Seep Source

Table 17A. Summary statistics of data collected from the Bonanza Tunnel Adit Seep (YP-AS-1) (Surface Water Quality Baseline Study, Appendix E, pages 3-8). Data was collected from May, 2012 to February, 2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)											
µg/L	**Aluminum**		**Antimony**		**Arsenic**		**Iron**		**Manganese**		**Mercury, ng/L**
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**
Bonanza Adit Seep (YP-AS-1)											
Minimum	0.0	9.8	94.9	112.0	29.5	41.6	0.0	53.1	0.0	2.7	0.0
Maximum	79.8	1300	354.0	911.0	89.4	2190	496.0	30700	337.0	2910	3800
Average	6.8	203.7	203.9	246.2	54.6	279.5	60.8	3615	35.7	274.0	647.3
Median	0.0	52.2	191.0	195.5	51.1	94.1	24.6	674.5	8.0	24.7	105.5
# Samples	18	18	18	18	18	18	18	18	18	18	18

YP-AS-1

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-AS-1	5	2012	8.6E-03	--	0	--	0.254	--	6.8	--	7.5	--	8.9	--	73	--	107	--	334	--	< 2.0	U
YP-AS-1	6	2012	2.3E-03	--	NM	--	0.292	--	6.6	--	7.4	--	11.7	--	12	--	NM	--	NM	--	NM	--
YP-AS-1	7	2012	1.3E-03	--	NM	--	0.365	--	5.3	--	7.3	--	16.1	--	24	--	NM	--	NM	--	NM	--
YP-AS-1	8	2012	7.0E-04	--	0	--	0.366	--	6.3	--	7.4	--	10.2	--	9.8	--	214	--	1300	--	< 2.0	UJ
YP-AS-1	9	2012	4.4E-04	--	NM	--	0.370	--	6.6	--	7.3	--	9.3	--	31	--	NM	--	NM	--	NM	--
YP-AS-1	10	2012	5.6E-04	--	NM	--	0.371	--	6.0	--	7.7	--	4.4	--	53	--	NM	--	NM	--	NM	--
YP-AS-1	11	2012	1.3E-03	--	0	--	0.351	--	7.7	--	7.4	--	4.7	--	14	--	149	--	10.4	--	< 2.0	U
YP-AS-1	5	2013	3.4E-03	--	0	--	0.286	--	6.1	--	7.1	--	15.5	--	5.6	--	117	--	144	--	9	--
YP-AS-1	6	2013	0.1	--	NM	--	0.330	--	5.6	--	7.3	--	12.8	--	2.1	--	NM	--	NM	--	NM	--
YP-AS-1	7	2013	0.1	--	NM	--	0.370	--	4.9	--	7.1	--	13.7	--	45.6	--	NM	--	NM	--	NM	--
YP-AS-1	8	2013	5.9E-04	--	0	--	0.388	--	5.2	--	7.3	--	14.1	--	40.5	--	175	--	25.8	--	< 2.0	U
YP-AS-1	9	2013	5.6E-04	--	NM	--	0.390	--	5.5	--	7.3	--	11.1	--	105	--	NM	--	NM	--	NM	--
YP-AS-1	10	2013	1.1E-02	--	NM	--	0.234	--	7.8	--	7.4	--	4.3	--	20	--	NM	--	NM	--	NM	--
YP-AS-1	11	2013	2.2E-03	--	0	--	0.333	--	7.7	--	7.4	--	3.0	--	18	--	139	--	18.8	--	< 2.0	U
YP-AS-1	12	2013	5.8E-04	--	NM	--	0.387	--	8.8	--	7.1	--	0.4	--	189	--	NM	--	NM	--	NM	--
YP-AS-1	1	2014	6.8E-04	--	NM	--	0.329	--	10.2	--	7.7	--	0.1	--	140	--	NM	--	NM	--	NM	--
YP-AS-1	2	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-1	3	2014	2.7E-02	--	NM	--	0.165	--	9.6	--	7.5	--	3.4	--	42	--	NM	--	NM	--	NM	--
YP-AS-1	5	2014	5.3E-03	--	0	--	0.223	--	7.2	--	7.4	--	9.1	--	64	--	103	--	51.4	--	< 2.0	U
YP-AS-1	6	2014	3.0E-03	--	NM	--	0.320	--	5.9	--	7.1	--	8.5	--	13	--	NM	--	NM	--	NM	--
YP-AS-1	7	2014	5.5E-04	--	NM	--	0.377	--	5.0	--	6.8	--	14.4	--	24	--	NM	--	NM	--	NM	--
YP-AS-1	8	2014	2.9E-04	--	0	--	0.394	--	4.3	--	6.9	--	14.3	--	22	--	188	--	53	--	2.5	--
YP-AS-1	11	2014	1.8E-03	--	0	--	0.343	--	5.6	--	7.2	--	4.8	--	1.8	--	149	--	9.8	--	3.7	--
YP-AS-1	2	2015	4.8E-03	--	0	--	0.231	--	9.5	--	7.4	--	1.6	--	33	--	82	--	507	--	79.8	--
YP-AS-1	5	2015	1.1E-03	--	0	--	0.316	--	5.7	--	7.2	--	10.0	--	6.4	--	142	--	41.2	--	5.6	--
YP-AS-1	8	2015	NA	--	10	--	0.453	--	7.1	--	7.1	--	24.9	--	63	--	225	--	307	--	10.4	--
YP-AS-1	11	2015	NA	--	0	--	0.349	--	6.4	--	7.6	--	1.4	--	55	--	135	--	361	--	2.2	--
YP-AS-1	2	2016	1.8E-03	--	0	--	0.257	--	7.2	--	7.3	--	2.1	--	55	--	133	--	333	--	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	152	- -	143	- -	8.1	- -	292	- -	54.1	- -	95.4	J+	66.2	J+	0.15	- -	< 0.02	U	107	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	251	- -	216	- -	54.4	J	2190	- -	44.5	J	303	- -	85.9	- -	0.7	- -	< 0.02	U	214	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	354	- -	347	- -	0.26	- -	48.1	- -	37.9	- -	74.4	- -	69.9	- -	< 0.02	U	< 0.02	U	149	- -	< 50.0	U	< 50.0	U
< 0.050	U	190	- -	198	- -	0.55	- -	83.5	- -	72	- -	77.9	- -	76.1	- -	0.03	- -	< 0.02	U	117	- -	21.1	J-	20.2	J-
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	237	- -	239	- -	22.3	- -	140	- -	48.2	- -	94.7	- -	93	- -	< 0.02	U	< 0.02	U	175	- -	< 40.0	UJ	< 40.0	UJ
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	349	- -	354	- -	0.27	- -	48.7	- -	43.4	- -	71.2	- -	71.5	- -	< 0.02	U	< 0.02	U	139	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	144	- -	148	- -	0.492	- -	87.4	- -	85.4	- -	56.8	- -	56.3	- -	0.02	- -	< 0.02	U	103	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	129	- -	129	- -	1.9	- -	93.1	- -	47.9	- -	96.8	- -	92.1	- -	0.03	J+	< 0.02	U	188	- -	36.1	J+	22	J+
< 0.050	U	264	- -	265	- -	0.9	- -	41.6	- -	30	- -	74.1	- -	72.4	- -	< 0.02	U	< 0.02	U	149	- -	< 20.0	U	< 20.0	U
< 0.050	U	181	- -	184	- -	1.7	- -	120	- -	79.4	- -	57.1	- -	45.3	- -	0.15	- -	< 0.02	U	82	- -	< 20.0	UJ	< 20.0	UJ
< 0.050	U	201	- -	200	- -	0.65	- -	69.2	- -	54	- -	79.2	- -	76.7	- -	< 0.02	U	< 0.02	U	142	- -	< 20.0	U	< 20.0	U
< 0.05	U	235	- -	150	- -	143	- -	711	- -	89.4	- -	248	- -	139	- -	0.24	- -	< 0.02	U	225	- -	32	J+	26.6	J+
< 0.05	U	911	- -	310	- -	33.1	- -	82.4	- -	29.5	- -	98.1	- -	73.4	- -	0.2	- -	< 0.02	U	135	- -	< 20	U	< 20	U
< 0.05	U	316	- -	281	- -	30.5	- -	646	- -	33.8	- -	140	- -	65.7	- -	0.18	- -	< 0.02	U	133	- -	< 20	U	< 20	U

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	30400	- -	30400	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	1.24	J+	0.08	J+	1	- -	0.4	J	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.06	J+	< 0.02	U	48600	- -	45400	- -	< 90	U	0.55	- -	0.5	J+	0.3	J+	9.47	- -	0.22	J+	2.9	- -	0.3	- -	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	41200	- -	41700	- -	< 9.0	U	1.07	- -	< 0.2	U	< 0.2	U	0.06	J+	< 0.02	U	0.2	- -	0.2	- -	0.0079	- -
< 0.02	U	< 0.02	U	33500	- -	34100	- -	< 9.0	U	0.42	- -	0.6	J+	0.4	J+	0.09	J+	0.03	J+	0.4	J+	0.4	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	46400	- -	45100	- -	< 9.0	U	0.47	- -	< 0.2	U	< 0.2	U	0.27	J+	0.17	J+	0.1	J+	0.2	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	39900	- -	40400	- -	< 15	U	0.67	- -	< 0.2	U	< 0.2	U	0.02	J+	< 0.02	U	0.3	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	27700	- -	27200	- -	< 15	U	0.49	- -	< 0.2	U	< 0.2	U	0.05	J+	0.03	J+	0.4	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	47200	- -	46400	- -	< 15	U	0.67	- -	< 0.2	U	< 0.2	U	0.35	J+	0.13	J+	0.3	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	40200	- -	41400	- -	< 15	U	1.17	- -	0.3	J+	< 0.2	U	0.08	- -	0.06	- -	0.3	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	23300	- -	22200	- -	< 15	U	0.57	- -	< 0.2	U	< 0.2	U	0.31	J+	0.06	J+	0.7	J+	0.5	J+	< 0.0047	U
< 0.02	U	< 0.02	U	39400	- -	38600	- -	< 15	U	0.43	- -	< 0.2	U	< 0.2	U	0.13	J+	0.05	J+	0.4	J+	0.5	J+	< 0.0047	U
0.02	- -	< 0.02	U	54300	- -	52700	- -	< 15	U	0.97	- -	0.7	- -	< 0.2	U	1.27	- -	0.64	- -	1.6	- -	0.3	- -	< 0.0047	U
0.14	J+	< 0.02	U	46000	- -	41200	- -	< 15	U	0.73	- -	0.3	J+	< 0.2	U	0.36	J+	0.19	J+	5.2	- -	0.5	J+	< 0.0047	U
0.02	- -	< 0.02	U	38300	- -	38700	- -	< 15	U	0.53	- -	< 0.2	U	< 0.2	U	2.44	- -	0.09	- -	1.2	- -	0.8	- -	< 0.0047	U

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	116	- -	3530	- -	24.8	- -	0.75	J+	< 0.02	U	9650	- -	9850	- -	253	- -	7.2	- -	1360	- -	24.5	- -	1.25	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	186	- -	30700	- -	< 20.0	UJ	2.75	- -	< 0.02	U	15800	- -	15100	- -	2910	- -	90.2	J-	3800	J	12.6	J	2.48	J
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.40	U	164	- -	136	- -	< 20.0	U	< 0.02	U	< 0.02	U	14800	- -	14800	- -	15.7	J-	< 5.0	UJ	26.6	- -	7.5	- -	< 0.1	U
< 0.40	U	128	- -	252	- -	< 20.0	U	0.11	- -	< 0.02	U	10700	- -	10900	- -	18.2	- -	3.2	J+	142	- -	14.7	- -	0.22	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	176	- -	1470	- -	37.5	- -	0.05	J+	< 0.02	U	14600	- -	14500	- -	79.5	- -	56.6	- -	36.3	- -	6.3	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	155	- -	53.1	- -	< 20.0	U	0.02	J+	< 0.02	U	13400	- -	13500	- -	2.7	J+	< 1.0	U	48.3	- -	16.4	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	106	- -	132	- -	< 20.0	U	0.1	J+	< 0.02	U	8940	J	8680	J	5.3	- -	1.7	J+	98.3	- -	21.3	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.20	U	184	- -	738	- -	< 20.0	U	0.12	J+	< 0.02	U	16000	- -	16200	- -	134	- -	57.5	- -	109	- -	10.9	- -	0.6	- -
< 0.20	U	156	- -	190	- -	< 20.0	U	< 0.02	U	< 0.02	U	13500	- -	13500	- -	10.5	- -	3.6	- -	23.4	- -	7.6	- -	< 0.1	U
< 0.20	U	87	- -	1120	- -	132	- -	0.58	- -	0.06	J+	7000	- -	6650	- -	72.2	J-	8.8	J-	1050	- -	111	- -	1.1	- -
< 0.20	U	149	- -	303	- -	< 20.0	U	0.1	J+	< 0.02	U	12200	- -	13100	- -	25.8	- -	4.5	J-	104	- -	16.6	- -	0.2	- -
< 0.2	U	220	- -	12600	- -	496	- -	1.24	J+	0.05	- -	20400	- -	19900	- -	390	- -	337	- -	3400	- -	24.1	- -	14.6	- -
0.21	- -	183	- -	1780	- -	121	- -	2.87	- -	< 0.02	U	16600	- -	16300	- -	23.5	- -	16.4	- -	724	- -	3	- -	7.2	- -
< 0.2	U	150	- -	10100	- -	24.4	- -	0.73	- -	< 0.02	U	13200	- -	13200	- -	714	- -	2.8	- -	541	- -	9.4	- -	3.4	- -

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
1.93	- -	1.92	- -	0.9	J+	0.4	J+	< 0.050	U	0.47	- -	0.47	- -	150	J+	< 20.0	U	1820	- -	1610	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.67	- -	2.36	- -	4.9	J+	0.7	J+	< 0.050	U	1.16	- -	1.16	- -	1030	- -	20.8	J	3330	- -	2300	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.13	J+	3.03	J+	0.2	J+	0.3	J+	< 0.050	U	0.56	- -	0.56	- -	< 20.0	UJ	< 20.0	UJ	2290	- -	2280	- -	< 1.0	U	< 1.0	U
2.58	- -	2.49	- -	0.42	J+	0.38	J+	< 0.050	U	0.44	- -	0.44	- -	< 40.0	U	< 40.0	U	2060	- -	2040	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.29	- -	3.13	- -	0.33	J+	0.26	J+	< 0.050	U	< 0.40	U	< 0.40	U	76.1	J+	< 40.0	U	2190	- -	2130	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.11	- -	2.93	- -	0.23	J+	0.27	J+	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	UJ	< 40.0	UJ	1820	- -	1840	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.76	- -	1.76	- -	< 0.2	U	0.2	J+	< 0.050	U	0.43	- -	0.43	- -	< 40.0	UJ	< 40.0	UJ	1530	- -	1400	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.01	- -	1.91	- -	0.9	J+	0.7	J+	< 0.050	U	0.7	J+	0.7	J+	46.4	J+	< 40.0	U	2310	- -	2300	- -	< 1.0	U	< 1.0	U
2.39	- -	2.31	- -	0.6	J+	0.5	J+	< 0.050	U	0.8	J-	0.79	J-	< 40.0	U	< 40.0	U	2050	- -	2060	- -	< 1.0	U	< 1.0	U
1.55	- -	1.7	- -	0.4	J+	< 0.2	U	< 0.050	U	0.49	J+	0.49	J+	74.5	- -	< 40.0	U	1870	- -	1560	- -	< 1.0	U	< 1.0	U
2.45	- -	2.49	- -	0.6	J+	0.6	J+	< 0.050	U	< 0.45	U	< 0.40	U	< 40.0	U	< 40.0	U	2030	- -	2100	- -	< 1.0	U	< 1.0	U
3.42	J+	3.59	J+	2.1	- -	1	- -	< 0.05	U	2.41	- -	2.4	- -	316	- -	< 42.6	U	4010	- -	3640	- -	< 1	U	< 1	U
4.46	- -	3.09	- -	5.6	- -	1.9	J+	< 0.05	U	2.47	J+	2.47	J+	465	- -	< 40	U	2430	- -	1940	- -	< 1	UJ	< 1	UJ
2.66	- -	2.6	- -	1.6	- -	0.6	- -	< 0.05	U	1.01	- -	1.01	- -	402	- -	< 40	U	2210	- -	1930	- -	< 1	U	< 1	U

Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.020	U	< 0.020	U	4400	- -	4460	- -	168	- -	112	- -	17.9	- -	0.04	J+	< 0.02	U	0.4	- -	< 0.2	U	3.5	J+	0.6	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.06	J+	< 0.02	U	8040	- -	8010	- -	213	- -	60	J	24.7	- -	0.07	J+	< 0.02	U	1.5	- -	< 0.2	U	16.6	- -	0.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	7330	- -	7380	- -	182	- -	< 5.0	U	30.5	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
< 0.02	U	< 0.02	U	5010	- -	5280	- -	163	- -	5.5	- -	20.3	- -	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	1.2	J+	1.2	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	8080	- -	8040	- -	216	- -	5	- -	27.1	- -	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	0.7	J+	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	6110	- -	6180	- -	184	- -	< 5.0	U	28.8	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1	J+	0.6	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	4160	- -	3950	- -	139	- -	16.5	J	17.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.6	J+	< 0.5	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	8410	- -	8570	- -	202	- -	12.5	- -	19.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.1	J+	< 0.5	U
< 0.02	U	< 0.02	U	6110	- -	6160	- -	191	J	< 5.0	U	29.2	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
< 0.02	U	< 0.02	U	3120	- -	3140	- -	148	- -	10	- -	15.1	- -	< 0.02	U	< 0.02	U	0.3	- -	< 0.2	U	2.1	J+	0.7	J+
< 0.02	U	< 0.02	U	5510	- -	6000	- -	181	- -	20	- -	22.3	- -	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.7	J+	< 0.5	U
< 0.02	U	< 0.02	U	9770	- -	9530	- -	253	- -	82	- -	12.8	- -	0.03	- -	< 0.02	U	1.5	- -	< 0.2	U	8.3	- -	0.7	J+
< 0.02	U	< 0.02	U	8390	- -	8170	- -	204	- -	70	- -	43.9	- -	0.07	- -	< 0.02	U	0.4	- -	< 0.2	U	29.1	- -	2.2	J+
< 0.02	U	< 0.02	U	6190	- -	6120	- -	162	- -	384	- -	27.2	- -	0.03	- -	< 0.02	U	0.5	- -	< 0.2	U	6.7	- -	1	- -

Anatek Labs, Inc.

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Client: NEZ PERCE TRIBE WATER RESOURCE DIV.
Address: PO BOX 365
LAPWAI, ID 83540
Attn: KEN CLARK

Batch #: 180618002
Project Name: MG WQS - 062018

Analytical Results Report

Sample Number 180618002-001
Client Sample ID YP-AS-1-S
Matrix Water
Comments

Sampling Date 6/13/2018
Sampling Time 12:30 PM

Date/Time Received 6/14/2018 3:45 PM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aluminum	0.0845	mg/L	0.01	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Antimony	0.112	mg/L	0.001	6/27/2018 6:11:00 PM	HSW	EPA 200.8	
Arsenic	0.0982	mg/L	0.001	6/27/2018 6:11:00 PM	HSW	EPA 200.8	
Cyanide	ND	mg/L	0.01	6/15/2018 2:00:00 PM	RPU	EPA 335.4	
Dissolved Aluminum	ND	mg/L	0.00358	6/28/2018 6:19:00 PM	SDR	EPA 200.7	
Dissolved Antimony	0.0949	mg/L	0.001	6/29/2018 12:22:00 PM	HSW	EPA 200.8	
Dissolved Arsenic	0.0604	mg/L	0.001	6/29/2018 12:22:00 PM	HSW	EPA 200.8	
Dissolved Iron	0.140	mg/L	0.01	6/28/2018 6:19:00 PM	SDR	EPA 200.7	
Dissolved Manganese	0.0134	mg/L	0.01	6/28/2018 6:19:00 PM	SDR	EPA 200.7	
Calcium	36.9	mg CaCO3/L	0.1	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Hardness	138	mg CaCO3/L	1	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Magnesium	11.1	mg CaCO3/L	0.1	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Iron	0.503	mg/L	0.02	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Manganese	0.0152	mg/L	0.01	6/25/2018 1:07:00 PM	SDR	EPA 200.7	
Mercury-Trace	0.0300	ug/L	0.0005	6/21/2018 11:51:00 AM	SDR	EPA 1631e	
NO3/N+NO2/N	0.0169	mg/L	0.05	6/19/2018 10:40:00 AM	RPU	SM 4500 NO3F	J
TSS	2.21	mg/L	1	6/19/2018 3:20:00 PM	GPB	SM 2540D	E10
TKN	0.630	mg/L	0.5	6/22/2018 10:30:00 AM	RPU	SM4500NORGC	
Total Nitrogen	0.647	mg/L		6/22/2018 10:30:00 AM	RPU	Calculation	
Total P	0.0515	mg/L	0.01	6/21/2018 1:15:00 PM	RPU	SM4500PF	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/13/18 13:15
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-1	**Basis:**	NA
Lab Code:	K1805697-012		

Dissolved Metals

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	ND	U	ug/L	4.0	1	07/02/18 17:38	06/19/18	
Antimony	6020A	**120**		ug/L	0.050	1	07/02/18 17:38	06/19/18	
Arsenic	6020A	**66.7**		ug/L	0.50	1	07/02/18 17:38	06/19/18	
Barium	6020A	**82.0**		ug/L	0.050	1	07/02/18 17:38	06/19/18	
Beryllium	6020A	ND	U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Boron	6010C	ND	U	ug/L	21	1	06/28/18 17:39	06/19/18	
Cadmium	6020A	ND	U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Calcium	6010C	**36500**		ug/L	21	1	06/28/18 17:39	06/19/18	
Chromium	6020A	ND	U	ug/L	0.20	1	07/02/18 17:38	06/19/18	
Cobalt	6020A	**0.069**		ug/L	0.020	1	07/02/18 17:38	06/19/18	
Copper	6020A	**0.38**		ug/L	0.10	1	07/02/18 17:38	06/19/18	
Iron	6010C	**35**		ug/L	21	1	06/28/18 17:39	06/19/18	
Lead	6020A	ND	U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Magnesium	6010C	**11400**		ug/L	5.3	1	06/28/18 17:39	06/19/18	
Manganese	6010C	**9.4**		ug/L	1.1	1	06/28/18 17:39	06/19/18	
Molybdenum	6020A	**2.21**		ug/L	0.10	1	07/02/18 17:38	06/19/18	
Nickel	6020A	ND	U	ug/L	0.20	1	07/02/18 17:38	06/19/18	
Phosphorus	6010C	ND	U	ug/L	42	1	06/28/18 17:39	06/19/18	
Potassium	6010C	**1470**		ug/L	420	1	06/28/18 17:39	06/19/18	
Selenium	6020A	ND	U	ug/L	1.0	1	07/02/18 17:38	06/19/18	
Silver	6020A	ND	U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Sodium	6010C	**5110**		ug/L	210	1	06/28/18 17:39	06/19/18	
Thallium	6020A	ND	U	ug/L	0.020	1	07/02/18 17:38	06/19/18	
Vanadium	6020A	ND	U	ug/L	0.20	1	07/02/18 17:38	06/19/18	
Zinc	6020A	ND	U	ug/L	2.0	1	07/02/18 17:38	06/19/18	

ALS Group USA, Corp.
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Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/13/18 13:15
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-1	**Basis:**	NA
Lab Code:	K1805697-012		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**43.8**	ug/L	4.0	1	07/02/18 16:50	06/19/18	
Antimony	6020A	**114**	ug/L	0.050	1	07/02/18 16:50	06/19/18	
Arsenic	6020A	**120**	ug/L	0.50	1	07/02/18 16:50	06/19/18	
Barium	6020A	**85.6**	ug/L	0.050	1	07/02/18 16:50	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Boron	6010C	**23**	ug/L	21	1	06/28/18 17:06	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Calcium	6010C	**37200**	ug/L	21	1	06/28/18 17:06	06/19/18	
Chromium	6020A	ND U	ug/L	0.20	1	07/02/18 16:50	06/19/18	
Cobalt	6020A	**0.136**	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Copper	6020A	**0.28**	ug/L	0.10	1	07/02/18 16:50	06/19/18	
Iron	6010C	**691**	ug/L	21	1	06/28/18 17:06	06/19/18	
Lead	6020A	**0.076**	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Magnesium	6010C	**11300**	ug/L	5.3	1	06/28/18 17:06	06/19/18	
Manganese	6010C	**22.4**	ug/L	1.1	1	06/28/18 17:06	06/19/18	
Molybdenum	6020A	**2.10**	ug/L	0.10	1	07/02/18 16:50	06/19/18	
Nickel	6020A	**0.26**	ug/L	0.20	1	07/02/18 16:50	06/19/18	
Phosphorus	6010C	**56**	ug/L	42	1	06/28/18 17:06	06/19/18	
Potassium	6010C	**1610**	ug/L	420	1	06/28/18 17:06	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/02/18 16:50	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Sodium	6010C	**5010**	ug/L	210	1	06/28/18 17:06	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/02/18 16:50	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/02/18 16:50	06/19/18	
Zinc	6020A	ND U	ug/L	2.0	1	07/02/18 16:50	06/19/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12-13/18
Sample Matrix:	Water	**Date Received:**	06/15/18

Mercury, Total

Prep Method:	METHOD	Units:	ng/L
Analysis Method:	1631E	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
YP-AS-1-M	K1805697-011	0.5	1	06/18/18	06/19/18	32.6	
YP-AS-1	K1805697-012	0.5	1	06/18/18	06/19/18	47.8	
YP-AS-2-US	K1805697-013	0.5	1	06/18/18	06/19/18	154	
YP-AS-2-M	K1805697-014	0.5	1	06/18/18	06/19/18	21.8	
YP-AS-2-DS	K1805697-015	0.5	1	06/18/18	06/19/18	178	
YP-AS-2	K1805697-016	0.5	1	06/18/18	06/19/18	1.3	
YP-D-04	K1805697-017	0.5	1	06/18/18	06/19/18	1.1	
YP-B-04	K1805697-018	0.5	1	06/18/18	06/19/18	0.6	
YP-AS-4-M	K1805697-019	0.5	1	06/18/18	06/19/18	4.6	
YP-AS-4-US	K1805697-020	0.5	1	06/18/18	06/19/18	6.3	
Method Blank 1	K1805697-MB1	0.5	1	06/18/18	06/19/18	ND	
Method Blank 2	K1805697-MB2	0.5	1	06/18/18	06/19/18	ND	
Method Blank 3	K1805697-MB3	0.5	1	06/18/18	06/19/18	ND	

Exhibit 18 - Photos of the Cinnabar Tunnel

"The Cinnabar Tunnel adit seep (YP-AS-4) flows from the collapsed Cinnabar adit opening in the middle of the hillside east of the EFSFSR and about 250 feet upstream of the Midnight Creek confluence...The seep flows directly to the west, splits through thick riparian vegetation on the EFSFSR floodplain, and flows into the EFSFSR year-round in three locations – one upstream of YP-SR-6 and two downstream of that site." (Surface Water Quality Baseline Study, pg. 4-236)

Figure 18A. Photo of the Cinnabar Adit Seep (YP-AS-4) source, from the Surface Water Quality Baseline Study, Appendix G, August 2012 Site Photos, page 14. Photo caption reads, "YP-AS-4, Cinnabar Tunnel adit seep. Close-up looking east at seep source. August 2012."

Figure 18B. Photo of one of the Cinnabar Adit Seep (YP-AS-4) channels flowing into the EFSFSR, from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 5. Photo caption reads, “YP-AS-4, Cinnabar adit seep. Close-up looking east and upstream at seep flowing into EFSFSR (flows downstream to left) below YP-SR-6.”

Exhibit 19 - Water Quality Data Collected from the Cinnabar Tunnel Adit

Table 19A. Summary statistics of data collected from the Cinnabar Tunnel Adit Seep (YP-AS-4) (Surface Water Quality Baseline Study, Appendix E, pages 21-26). Data was collected from May, 2012 to February, 2016. All non-detects were entered as "0's" to prevent bias, therefore summary statistics may be conservative.

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)				
µg/L	**Antimony**		**Arsenic**	
	Dissolved	**Total**	**Dissolved**	**Total**
Cinnabar Adit Seep (YP-AS-4)				
Minimum	42.8	43.4	82.3	82.5
Maximum	56.3	54.6	127.0	126
Average	49.3	49.2	108.2	108.5
Median	50.0	49.2	110.0	109.0
# Samples	21	21	21	21

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-AS-4	5	2012	0.37	--	0	--	NM	--	10.6	--	NM	--	4.2	--	3.1	--	76.6	--	12.7	--	< 2.0	U
YP-AS-4	6	2012	0.24	--	NM	--	0.188	--	9.7	--	7.7	--	5.8	--	1.5	--	NM	--	NM	--	NM	--
YP-AS-4	7	2012	0.10	--	NM	--	0.223	--	9.5	--	7.3	--	9.1	--	4.9	--	NM	--	NM	--	NM	--
YP-AS-4	8	2012	5.9E-02	--	0	--	0.249	--	6.8	--	7.4	--	6.7	--	0	--	107	--	6.6	--	2.1	--
YP-AS-4	9	2012	8.9E-02	--	NM	--	0.233	--	9.3	--	7.7	--	6.5	--	1.2	--	NM	--	NM	--	NM	--
YP-AS-4	10	2012	4.2E-02	--	NM	--	0.243	--	9.6	--	7.6	--	5.0	--	1.1	--	NM	--	NM	--	NM	--
YP-AS-4	11	2012	5.5E-02	--	0	--	0.246	--	9.2	--	7.6	--	6.2	--	1.1	--	108	--	3.1	--	< 2.0	U
YP-AS-4	12	2012	7.0E-02	--	NM	--	0.238	--	10.8	--	8.1	--	4.6	--	1.0	--	NM	--	NM	--	NM	--
YP-AS-4	1	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-4	2	2013	4.0E-02	--	0	--	0.242	--	10.1	--	7.7	--	3.1	--	1.6	--	104	--	< 2.0	U	< 2.0	U
YP-AS-4	3	2013	5.0E-02	--	NM	--	0.258	--	10.4	--	7.7	--	3.5	--	0.6	--	NM	--	NM	--	NM	--
YP-AS-4	4	2013	0.11	--	NM	--	0.243	--	10.3	--	7.6	--	3.1	--	2.4	--	NM	--	NM	--	NM	--
YP-AS-4	5	2013	0.30	--	0	--	0.226	--	9.8	--	7.4	--	4.2	--	1.4	--	98.2	--	69.8	--	2	--
YP-AS-4	6	2013	0.28	--	NM	--	0.190	--	9.6	--	7.2	--	5.2	--	0.5	--	NM	--	NM	--	NM	--
YP-AS-4	7	2013	9.1E-02	--	NM	--	0.215	--	9.2	--	7.1	--	7.3	--	1.8	--	NM	--	NM	--	NM	--
YP-AS-4	8	2013	6.1E-02	--	0	--	0.239	--	9.2	--	7.3	--	7.2	--	1.5	--	107	--	3.4	--	< 2.0	U
YP-AS-4	9	2013	7.5E-02	--	NM	--	0.245	--	9.2	--	7.4	--	6.7	--	1.0	--	NM	--	NM	--	NM	--
YP-AS-4	10	2013	7.8E-02	--	NM	--	0.238	--	9.0	--	7.7	--	6.4	--	2.1	--	NM	--	NM	--	NM	--
YP-AS-4	11	2013	6.0E-02	--	0	--	0.234	--	9.5	--	7.6	--	5.8	--	1.5	--	112	--	3.8	--	< 2.0	U
YP-AS-4	12	2013	5.0E-02	--	NM	--	0.238	--	10.1	--	7.2	--	4.6	--	1.6	--	NM	--	NM	--	NM	--
YP-AS-4	1	2014	6.1E-02	--	NM	--	0.227	--	10.3	--	7.8	--	3.6	--	3.0	--	NM	--	NM	--	NM	--
YP-AS-4	2	2014	5.1E-02	--	0	--	0.305	--	10.3	--	7.3	--	3.3	--	2.4	--	111	J	2.7	J+	< 2	U
YP-AS-4	3	2014	0.11	--	NM	--	0.236	--	10.8	--	7.5	--	2.3	--	2.0	--	NM	--	NM	--	NM	--
YP-AS-4	4	2014	0.16	--	NM	--	0.228	--	10.7	--	7.4	--	2.8	--	2.6	--	NM	--	NM	--	NM	--
YP-AS-4	5	2014	0.19	--	0	--	0.230	--	9.9	--	7.3	--	4.7	--	2.1	--	105	--	4.2	--	< 2.0	U
YP-AS-4	6	2014	0.22	--	NM	--	0.185	--	9.7	--	6.9	--	5.0	--	1.8	--	NM	--	NM	--	NM	--
YP-AS-4	7	2014	0.14	--	NM	--	0.213	--	9.5	--	7.1	--	6.0	--	0.5	--	NM	--	NM	--	NM	--
YP-AS-4	8	2014	7.8E-02	--	0	--	0.246	--	9.2	--	7.1	--	7.0	--	1.2	--	113	--	4.6	--	< 2.0	U
YP-AS-4	11	2014	3.4E-02	--	0	--	0.263	--	9.7	--	7.0	--	6.2	--	3.1	--	118	--	4.2	--	< 2.0	U
YP-AS-4	2	2015	5.5E-02	--	0	--	0.237	--	10.3	--	7.7	--	3.6	--	2.0	--	109	--	3.5	J+	< 2.0	U
YP-AS-4	5	2015	6.6E-02	--	0	--	0.222	--	10.1	--	7.9	--	4.7	--	2.3	--	104	--	7.1	--	2.4	--
YP-AS-4	8	2015	3.8E-02	--	0	--	0.248	--	6.7	--	7.1	--	6.4	--	1.2	--	114	--	7.1	J+	< 2	U
YP-AS-4	11	2015	1.0E-02	--	0	--	0.274	--	9.7	--	7.5	--	5.8	--	3.6	--	114	--	31	--	2.7	--
YP-AS-4	2	2016	2.1E-02	--	0	--	0.251	--	8.3	--	7.4	--	3.1	--	1.2	--	107	--	17.9	--	< 2	U

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

YP-AS-4

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	46.2	--	45.7	--	0.17	--	82.5	--	82.3	--	6.4	J+	6.3	J+	< 0.02	U	< 0.02	U	76.6	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	48.7	--	47.9	--	0.17	--	103	--	101	--	9.75	--	9.78	--	< 0.02	U	< 0.02	U	107	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	49.5	--	49.3	--	0.18	--	122	--	120	--	11	--	11	--	< 0.02	U	< 0.02	U	108	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	46.4	--	47.4	--	0.16	--	107	--	108	--	9.26	J+	9.51	J+	< 0.02	U	< 0.02	U	104	--	< 50.0	U	< 50.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	43.4	--	42.8	--	0.13	--	85.3	--	85.6	--	9.08	J+	9.35	J+	< 0.02	U	< 0.02	U	98.2	--	< 20.0	UJ	< 20.0	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	52.4	--	54.7	--	0.18	--	116	--	115	--	9.82	J+	10.1	J+	< 0.02	U	< 0.02	U	107	--	< 40.0	UJ	< 40.0	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	51.3	--	51.1	--	0.14	--	117	--	117	--	10.6	J+	10.6	J+	< 0.02	U	< 0.02	U	112	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.05	U	50.9	--	50.9	J	0.12	--	111	--	110	--	9.09	J+	8.97	J+	< 0.02	U	< 0.02	U	109	J	< 20	U	< 20	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	46.2	--	43.9	--	0.125	--	99.4	--	98.8	--	8.58	J+	8.16	J+	< 0.02	U	< 0.02	U	105	--	< 20.0	U	< 20.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.050	U	49.2	--	50	--	0.18	--	109	--	108	--	9.44	--	9.48	--	< 0.02	U	< 0.02	U	113	--	< 20.0	U	< 20.0	U
< 0.050	U	49.1	--	50.3	--	0.16	--	120	--	125	--	10.8	--	11.1	--	< 0.02	U	< 0.02	U	118	--	< 20.0	U	< 20.0	U
< 0.050	U	50.2	--	51	--	0.15	--	109	--	109	--	9.1	--	8.9	--	< 0.02	U	< 0.02	U	109	--	< 20.0	UJ	< 20.0	UJ
< 0.050	U	45.4	--	45.3	--	0.08	--	105	--	105	--	9.01	--	9.07	--	< 0.02	U	< 0.02	U	104	--	< 20.0	U	< 20.0	U
< 0.05	U	54.6	--	56.3	--	0.19	--	126	--	127	--	11.2	--	11	--	< 0.02	U	< 0.02	U	114	--	< 20	U	< 21.3	U
< 0.05	U	51.1	--	51.1	--	0.26	--	121	--	120	--	11.4	--	11	--	< 0.02	U	< 0.02	U	114	--	< 20	U	< 20	U
< 0.05	U	46.2	--	47.5	--	0.1	--	107	--	110	--	9.47	--	9.56	--	< 0.02	U	< 0.02	U	107	--	< 20	U	< 20	U

YP-AS-4

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
< 0.02	U	< 0.02	U	23500	--	23200	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.03	J+	0.03	J+	0.2	--	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	31500	--	31100	--	< 9.0	U	< 0.40	U	1	J+	< 0.2	U	0.04	J+	0.03	J+	0.2	--	0.2	--	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	32100	--	32900	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	< 0.1	U	0.2	--	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	30900	--	31500	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.08	J+	0.07	J+	0.2	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	29600	--	29400	--	< 9.0	U	< 0.40	U	0.2	J+	< 0.2	U	0.04	J+	< 0.02	U	0.2	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	31100	--	30700	--	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.1	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	33000	--	33000	--	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.2	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	31900	--	31900	--	< 15	U	< 0.4	U	0.2	J+	0.4	J+	0.07	J+	0.06	J+	0.2	J+	0.3	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	29900	--	29900	--	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.1	J+	< 0.0047	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	32400	--	31400	--	< 15	U	0.43	--	0.4	J+	< 0.2	U	< 0.02	U	< 0.02	U	0.1	J+	0.1	J+	< 0.0047	U
< 0.02	U	< 0.02	U	34500	--	34900	--	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	0.03	--	0.04	--	0.1	J+	0.2	J+	< 0.0047	U
< 0.02	U	< 0.02	U	31600	--	30900	--	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	< 0.1	U	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	30300	--	30800	--	< 15	U	< 0.40	U	< 0.2	U	0.2	J+	0.04	J+	0.04	J+	0.1	J+	0.4	J+	< 0.0047	U
< 0.02	U	< 0.02	U	33200	--	33900	--	< 15	U	< 0.4	U	< 0.2	U	< 0.2	U	< 0.02	U	< 0.02	U	0.2	--	0.1	--	< 0.0047	U
< 0.02	U	< 0.02	U	32100	--	31900	--	< 15	U	0.22	--	< 0.2	U	< 0.2	U	0.12	J+	0.11	J+	0.2	J+	0.3	J+	< 0.0047	U
< 0.02	U	< 0.02	U	32300	--	31800	--	< 15	U	0.23	--	< 0.2	U	< 0.2	U	0.08	--	0.08	--	0.2	--	0.3	--	< 0.0047	U

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Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
< 0.40	U	84.9	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	6360	--	6260	--	< 5.0	U	< 5.0	U	4.5	--	1.5	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	112	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8100	--	7920	--	< 5.0	UJ	< 5.0	UJ	3	--	1.5	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	117	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9000	--	9120	--	< 5.0	U	< 5.0	U	1.8	J+	1.1	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	115	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9240	--	9400	--	< 5.0	U	< 5.0	U	1.2	--	< 1.0	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.40	U	108	--	88.8	--	< 20.0	U	0.02	--	< 0.02	U	8240	--	8280	--	< 2.0	U	< 2.0	U	10.4	--	1.9	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	112	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8200	--	8250	--	< 1.0	U	< 1.0	U	3.4	--	1.4	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	120	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9090	--	9020	--	< 1.0	U	< 1.0	U	1.7	--	1.4	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.2	U	117	--	< 20	U	< 20	U	< 0.02	U	< 0.02	U	9090	--	9020	--	< 1	U	< 1	U	1.2	--	< 1	U	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	110	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8670	J	8640	J	< 1.0	U	< 1.0	U	3	--	1.6	--	< 0.1	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.20	U	117	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8710	--	8640	--	< 1.0	UJ	< 1.0	UJ	2.4	--	1.7	--	< 0.1	U
< 0.20	U	125	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9410	--	9470	--	< 1.0	UJ	< 1.0	UJ	1.6	--	0.9	--	< 0.1	U
< 0.20	U	116	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	9100	--	8890	--	< 1.0	UJ	< 1.0	UJ	2.6	--	1.1	--	< 0.1	U
< 0.20	U	113	--	< 20.0	U	< 20.0	U	< 0.02	U	< 0.02	U	8970	--	8340	--	< 1.0	UJ	< 1.0	UJ	2.1	--	1.1	--	< 0.1	U
< 0.2	U	120	--	< 20	U	< 21.3	U	< 0.02	U	< 0.02	U	9000	--	9190	--	< 1	U	< 1.1	U	2.6	--	0.9	--	< 0.1	U
< 0.2	U	120	--	33.9	--	< 20	U	< 0.02	U	< 0.02	U	9680	--	9520	--	1.1	--	< 1	U	5.2	--	0.9	--	< 0.1	U
< 0.2	U	119	--	30.6	--	< 20	U	0.03	--	< 0.02	U	9370	--	9340	--	< 1	U	< 1	U	1.5	--	0.7	--	< 0.1	U

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Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total*		Nickel, Dissolved*		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52		52		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
0.9	--	0.85	--	0.2	J+	0.2	J+	0.205	--	0.66	--	0.45	J+	< 20.0	UJ	< 20.0	UJ	1400	--	1340	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.05	--	1.03	--	0.5	J+	0.3	J+	0.16	--	< 0.40	U	< 0.40	U	< 20.0	UJ	< 20.0	UJ	1610	--	1560	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.03	J+	1.1	J+	< 0.2	U	< 0.2	U	0.204	--	0.75	--	0.55	--	< 20.0	UJ	< 20.0	UJ	1630	--	1640	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.01	--	1.03	--	0.5	J+	0.4	J+	0.344	--	< 0.40	U	< 0.40	U	< 20.0	U	< 20.0	U	1490	--	1590	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.88	--	0.87	--	< 0.20	U	< 0.20	U	0.241	--	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	1560	--	1610	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.13	--	1.1	--	< 0.20	U	< 0.20	U	0.146	--	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	1640	--	1610	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.01	--	1.04	--	< 0.20	U	< 0.20	U	0.256	--	1	--	0.74	--	< 40.0	UJ	< 40.0	UJ	1660	--	1630	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.98	J+	0.97	J+	0.3	J+	0.4	J+	0.353	--	0.95	--	0.6	--	< 40	UJ	< 40	UJ	1450	--	1450	--	< 1	UJ	< 1	UJ
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
1.01	--	0.96	--	< 0.2	U	< 0.2	U	0.382	--	0.85	--	0.47	--	< 40.0	UJ	< 40.0	UJ	1510	--	1500	--	< 1.0	U	< 1.0	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.99	--	0.97	--	< 0.2	U	< 0.2	U	0.139	--	0.6	J+	0.46	J+	< 40.0	UJ	< 40.0	UJ	1680	--	1660	--	< 1.0	U	< 1.0	U
0.9	--	0.98	--	0.3	J+	0.4	J+	0.166	--	0.51	UJ	< 0.40	UJ	< 40.0	U	< 40.0	U	1730	--	1750	--	< 1.0	U	< 1.0	U
1	--	0.96	--	< 0.2	U	< 0.2	U	0.293	--	0.82	J+	0.53	J+	< 40.0	U	< 40.0	U	1580	--	1530	--	< 1.0	U	< 1.0	U
1.09	--	1.1	--	0.3	J+	0.4	J+	0.263	--	0.61	--	< 0.40	U	< 40.0	U	< 40.0	U	1620	--	1510	--	< 1.0	U	< 1.0	U
1.08	J+	1.09	J+	0.3	--	< 0.2	U	0.134	--	1.07	--	0.93	J+	< 40	U	< 42.6	U	1650	--	1660	--	< 1	U	< 1	U
1.03	--	1.05	--	0.5	J+	0.6	J+	0.157	--	0.88	J+	0.72	J+	< 40	U	< 40	U	1710	--	1680	--	< 1	UJ	< 1	UJ
1.01	--	1.04	--	0.4	--	0.4	--	0.245	--	0.85	--	0.6	--	< 40	U	< 40	U	1580	--	1610	--	< 1	U	< 1	U

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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.02	U	< 0.02	U	815	--	794	--	116	--	< 5.0	U	9.42	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.6	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
0.03	J+	< 0.02	U	902	--	896	--	131	--	< 5.0	U	12.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.7	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	996	--	1000	--	139	--	< 5.0	U	14.5	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	886	--	920	--	117	--	< 5.0	U	15.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.6	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	917	--	971	--	119	--	< 5.0	U	10.3	--	< 0.020	U	< 0.020	U	0.2	--	< 0.2	U	0.9	J+	0.8	J+
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	910	--	914	--	128	--	< 5.0	U	10.3	--	< 0.020	U	< 0.020	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	935	--	917	--	116	--	< 5.0	U	13.5	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	826	--	833	--	117	--	< 5	U	14.5	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	1000	--	1010	--	132	--	< 5.0	U	12.5	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
< 0.02	U	< 0.02	U	999	--	999	--	146	--	< 5.0	U	11.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.5	J+	< 0.5	U
< 0.02	U	< 0.02	U	1030	--	1040	--	222	J+	< 5.0	U	13.2	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.6	J+
< 0.02	U	< 0.02	U	831	--	850	--	127	--	< 5.0	U	12.8	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	0.5	J+
< 0.02	U	< 0.02	U	999	--	936	--	132	--	< 5.0	U	12.6	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	1030	--	1040	--	111	--	< 5	U	10.6	--	< 0.02	U	< 0.02	U	< 0.2	U	0.2	--	< 0.5	U	< 0.5	U
< 0.02	U	< 0.02	U	1020	--	1010	--	130	--	< 5	U	13.1	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	1.2	J+	1.1	J+
< 0.02	U	< 0.02	U	903	--	929	--	107	--	< 5	U	13	--	< 0.02	U	< 0.02	U	< 0.2	U	< 0.2	U	0.6	--	0.7	--

Anatek Labs, Inc.

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Client: NEZ PERCE TRIBE WATER RESOURCE DIV.
Address: PO BOX 365
LAPWAI, ID 83540
Attn: KEN CLARK

Batch #: 180618002
Project Name: MG WQS - 062018

Analytical Results Report

Sample Number 180618002-017
Client Sample ID YP-AS-4-S
Matrix Water
Comments

Sampling Date 6/12/2018
Sampling Time 6:00 PM

Date/Time Received 6/14/2018 3:45 PM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aluminum	0.0587	mg/L	0.01	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
Antimony	0.0481	mg/L	0.001	6/27/2018 7:48:00 PM	HSW	EPA 200.8	
Arsenic	0.106	mg/L	0.001	6/27/2018 7:48:00 PM	HSW	EPA 200.8	
Dissolved Aluminum	0.00700	mg/L	0.00358	6/28/2018 6:54:00 PM	SDR	EPA 200.7	J
Dissolved Antimony	0.0434	mg/L	0.001	7/3/2018 1:09:00 PM	HSW	EPA 200.8	
Dissolved Arsenic	0.0962	mg/L	0.001	7/3/2018 1:09:00 PM	HSW	EPA 200.8	
Calcium	25.9	mg CaCO3/L	0.1	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
Hardness	94.5	mg CaCO3/L	1	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
Magnesium	7.21	mg CaCO3/L	0.1	6/25/2018 1:41:00 PM	SDR	EPA 200.7	
NO3/N+NO2/N	0.115	mg/L	0.05	6/19/2018 10:40:00 AM	RPU	SM 4500 NO3F	
TSS	<1	mg/L	1	6/19/2018 3:20:00 PM	GPB	SM 2540D	
TKN	0.800	mg/L	0.5	6/22/2018 10:30:00 AM	RPU	SM4500NORGC	
Total Nitrogen	0.915	mg/L		6/22/2018 10:30:00 AM	RPU	Calculation	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 18:15
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-4B	**Basis:**	NA
Lab Code:	K1805697-021		

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	ND U	ug/L	4.0	1	07/12/18 12:04	06/19/18	
Antimony	6020A	**54.5**	ug/L	0.050	1	07/12/18 12:04	06/19/18	
Arsenic	6020A	**110**	ug/L	0.50	1	07/12/18 12:04	06/19/18	
Barium	6020A	**8.23**	ug/L	0.10	1	07/12/18 12:04	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 18:49	06/19/18	
Cadmium	6020A	ND U	ug/L	0.040	1	07/12/18 12:04	06/19/18	
Calcium	6010C	**26400**	ug/L	21	1	06/28/18 18:49	06/19/18	
Chromium	6020A	**0.20**	ug/L	0.20	1	07/12/18 12:04	06/19/18	
Cobalt	6020A	ND U	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Copper	6020A	**0.25**	ug/L	0.10	1	07/12/18 12:04	06/19/18	
Iron	6010C	ND U	ug/L	21	1	06/28/18 18:49	06/19/18	
Lead	6020A	**0.026**	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Magnesium	6010C	**6970**	ug/L	5.3	1	06/28/18 18:49	06/19/18	
Manganese	6010C	ND U	ug/L	1.1	1	06/28/18 18:49	06/19/18	
Molybdenum	6020A	**1.19**	ug/L	0.10	1	07/12/18 12:04	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/12/18 12:04	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 18:49	06/19/18	
Potassium	6010C	**1410**	ug/L	420	1	06/28/18 18:49	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/12/18 12:04	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Sodium	6010C	**1020**	ug/L	210	1	06/28/18 18:49	06/19/18	
Thallium	6020A	**0.031**	ug/L	0.020	1	07/12/18 12:04	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/12/18 12:04	06/19/18	
Zinc	6020A	ND U	ug/L	2.0	1	07/12/18 12:04	06/19/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 18:15
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-4B	**Basis:**	NA
Lab Code:	K1805697-021		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**16.8**	ug/L	4.0	1	07/12/18 11:28	06/19/18	
Antimony	6020A	**53.0**	ug/L	0.050	1	07/12/18 11:28	06/19/18	
Arsenic	6020A	**110**	ug/L	0.50	1	07/12/18 11:28	06/19/18	
Barium	6020A	**8.41**	ug/L	0.10	1	07/12/18 11:28	06/19/18	
Beryllium	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Boron	6010C	ND U	ug/L	21	1	06/28/18 18:36	06/19/18	
Cadmium	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Calcium	6010C	**26100**	ug/L	21	1	06/28/18 18:36	06/19/18	
Chromium	6020A	ND U	ug/L	0.20	1	07/12/18 11:28	06/19/18	
Cobalt	6020A	**0.025**	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Copper	6020A	**0.11**	ug/L	0.10	1	07/12/18 11:28	06/19/18	
Iron	6010C	ND U	ug/L	21	1	06/28/18 18:36	06/19/18	
Lead	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Magnesium	6010C	**6860**	ug/L	5.3	1	06/28/18 18:36	06/19/18	
Manganese	6010C	ND U	ug/L	1.1	1	06/28/18 18:36	06/19/18	
Molybdenum	6020A	**1.14**	ug/L	0.10	1	07/12/18 11:28	06/19/18	
Nickel	6020A	ND U	ug/L	0.20	1	07/12/18 11:28	06/19/18	
Phosphorus	6010C	ND U	ug/L	42	1	06/28/18 18:36	06/19/18	
Potassium	6010C	**1390**	ug/L	420	1	06/28/18 18:36	06/19/18	
Selenium	6020A	ND U	ug/L	1.0	1	07/12/18 11:28	06/19/18	
Silver	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Sodium	6010C	**1020**	ug/L	210	1	06/28/18 18:36	06/19/18	
Thallium	6020A	ND U	ug/L	0.020	1	07/12/18 11:28	06/19/18	
Vanadium	6020A	ND U	ug/L	0.20	1	07/12/18 11:28	06/19/18	
Zinc	6020A	ND U	ug/L	2.0	1	07/12/18 11:28	06/19/18	

Exhibit 20 – Photos of the Meadow Creek Adit

"The Meadow Creek Mine adit seep (YP-AS-7) is located above the heap leach pile at the base of the Hangar Flats hillside (see photos in Appendix G). It originates from the scarred hillside; due to substantial disturbance from legacy mining and more recent hillslope erosion, it is not clear exactly where the adit was or how close the seep is to the former adit. Historical records, including photos and maps, indicate at least two adits existed on this hillside (Mitchell 2000). During spring snowmelt, the seep flows into a drainage ditch at the base of the hillside where it infiltrates into the subsurface. The seep generally only flows during the spring snowmelt season." (Surface Water Quality Baseline Study, pg. 4-90)

However, in May of 2018 and during high spring flows, a Nez Perce Tribe (NPT) staff member followed flow from the Meadow Creek adit source and witnessed adit water entering the EFSF over a half mile from the adit's source. Figure 21A shows the flow path he followed. The yellow circle denotes where flow went subsurface three weeks later, during a follow-up visit.

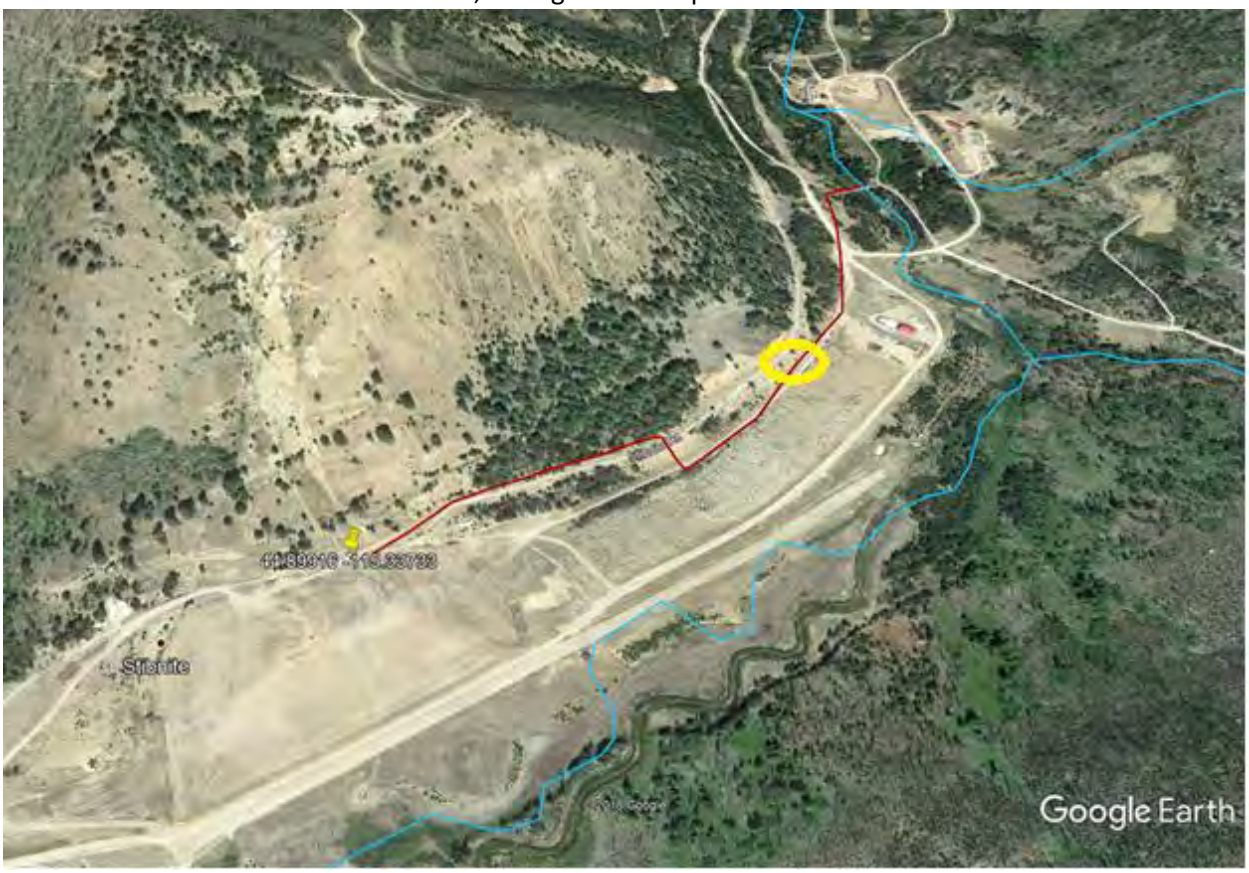

Figure 20A. Aerial view of the flow path that a NPT staff member witnessed during May of 2018. The yellow circle denotes where adit flows went subsurface three weeks later (June, 2018) during a follow-up site visit.

Figure 20B. Photo of the Meadow Creek Adit Seep (YP-AS-7) source. Photo taken by NPT staff staff in June, 2018.

Figure 20C. Photo of the Meadow Creek Adit Seep (YP-AS-7) just downstream of the source. Photo taken by NPT staff in June, 2018.

Figure 20D. Photo of the Meadow Creek Adit Seep (YP-AS-7) flowing down an old road ditch. Photo taken by NPT staff in June, 2018.

Exhibit 21 - Water Quality Data Collected from the Meadow Creek Adit

Summary Statistics of Measured Concentrations (µg/L, unless otherwise specified)											
µg/L	**Aluminum**		**Antimony**		**Arsenic**		**Iron**		**Manganese**		**Mercury, ng/L**
	Dissolved	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Dissolved**	**Total**	**Total**
Meadow Creek Adit Seep (YP-AS-)											
Minimum	0.0	5.0	7.5	40.9	217.0	1100	22.6	8200	1390	1610	11.5
Maximum	14.1	8530	56.0	270.0	11900	44800	46600	135000	2120	2660	746
Average	4.5	969	22.1	147.0	6547	17579	24838	63756	1779	2018	277.4
Median	2.9	101.0	19.5	146.0	8700	13900	36800	55800	1740	2120	119
# Samples	9	9	9	9	9	9	9	9	9	9	9

Site	Sampling Event		Flow		Color		Conductivity		Dissolved Oxygen (DO)		pH		Temperature, Water		Turbidity		Alkalinity as CaCO3, Total		Aluminum, Total		Aluminum, Dissolved	
Regulatory Criteria	NA		NA		15		NA		> 6		≥ 6.5 and ≤ 9.0		< 13		NA		> 20		>50		50	
Units	Month	Year	CFS	Flag	Pt-Co	Flag	mS/cm	Flag	mg/L	Flag	pH units	Flag	deg C	Flag	NTU	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
YP-AS-7	5	2012	1.7E-03	--	0	--	1.47	--	5.3	--	7.7	--	12.5	--	1.4	--	348	--	5	--	< 2.0	U
YP-AS-7	6	2012	1.8E-03	--	NM	--	1.22	--	8.2	--	7.5	--	10.5	--	55	--	NM	--	NM	--	NM	--
YP-AS-7	7	2012	7.2E-04	--	NM	--	1.19	--	6.1	--	7.2	--	17.8	--	34	--	NM	--	NM	--	NM	--
YP-AS-7	8	2012	2.2E-04	--	0	--	1.09	--	7.5	--	7.9	--	15.4	--	41	--	273	--	101	--	3.7	J+
YP-AS-7	9	2012	2.8E-03	--	NM	--	1.08	--	3.0	--	6.9	--	18.3	--	97	--	NM	--	NM	--	NM	--
YP-AS-7	10	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	11	2012	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	2	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	3	2013	3.9E-03	--	NM	--	0.172	--	11.6	--	7.5	--	1.4	--	RM	R	NM	--	NM	--	NM	--
YP-AS-7	4	2013	5.3E-05	--	NM	--	1.05	--	8.7	--	7.6	--	2.2	--	1086	--	NM	--	NM	--	NM	--
YP-AS-7	5	2013	1.1E-04	--	0	--	1.34	--	4.3	--	6.8	--	18.1	--	6.3	--	317	--	20.4	--	2.6	--
YP-AS-7	6	2013	1.2E-05	--	NM	--	1.34	--	4.1	--	7.0	--	10.0	--	56	--	NM	--	NM	--	NM	--
YP-AS-7	7	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	8	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	9	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	10	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	11	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	12	2013	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	1	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	3	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	4	2014	4.2E-03	--	NM	--	1.48	--	2.1	--	6.8	--	8.2	--	7.1	--	NM	--	NM	--	NM	--
YP-AS-7	5	2014	4.6E-03	--	0	--	1.51	--	3.4	--	6.9	--	9.1	--	15	--	412	--	8530	--	14.1	--
YP-AS-7	6	2014	3.3E-03	--	NM	--	1.52	--	1.9	--	6.9	--	10.8	--	16	--	NM	--	NM	--	NM	--
YP-AS-7	7	2014	1.9E-03	--	NM	--	1.42	--	2.0	--	6.8	--	10.6	--	10	--	NM	--	NM	--	NM	--
YP-AS-7	8	2014	7.3E-04	--	0	--	1.41	--	3.7	--	7.0	--	11.1	--	118	--	376	--	434	--	13.1	--
YP-AS-7	11	2014	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	2	2015	1.7E-03	--	0	--	1.36	--	5.4	--	7.4	--	9.3	--	26	--	408	--	280	--	3.7	--
YP-AS-7	5	2015	6.0E-04	--	0	--	1.40	--	4.4	--	6.9	--	11.4	--	97	--	383	--	277	--	2.9	--
YP-AS-7	8	2015	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	11	2015	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--
YP-AS-7	2	2016	NA	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--	NM	--

NA None applicable

NM Not measured because monthly events do not include samples at this site or because site was not visited due to adverse site conditions.

*Regulatory criteria with an asterisk are dependent upon hardness. Site-specific regulatory criteria can be calculated using the site hardness and the equations and factors given in IDAPA 58.01.02. The criteria displayed in the table are shown as dissolved metal and correspond to a total hardness of 100 mg/L and a water effect ratio of 1.

Units µg/L micrograms per liter; mg/L milligrams per liter; mS/cm milliSiemens per centimeter; ng/L nanograms per liter; deg C degrees Celsius; NTU nephelometric turbidity units

Data Flag Codes

U not detected

UJ not detected, estimated

J+ estimated with possible high bias

J estimated

J- estimated with possible low bias

R datum rejected

RM measured but rejected

-- no flag

< 0.002 not detected at the method reporting limit of 0.002 mg/L

Ammonia as Nitrogen		Antimony, Total		Antimony, Dissolved		Arsenic (III)		Arsenic, Total		Arsenic, Dissolved		Barium, Total		Barium, Dissolved		Beryllium, Total		Beryllium, Dissolved		Bicarbonate as CaCO3		Boron, Total		Boron, Dissolved	
NA		5.6		5.6		NA		10		10		2000		2000		4		4		NA		120000		120000	
mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.050	U	146	- -	26	- -	4190	- -	1100	- -	217	- -	24.6	J+	14.8	J+	0.04	- -	< 0.02	U	348	- -	< 50.0	U	< 50.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	76.9	- -	56	- -	556	- -	1290	- -	297	- -	30.1	- -	20.8	- -	0.03	- -	< 0.02	U	273	- -	< 10.0	U	< 10.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.050	U	40.9	- -	32.3	- -	1020	- -	1320	- -	807	- -	47.7	- -	45.4	- -	0.03	- -	< 0.02	U	317	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	211	- -	7.45	- -	9470	- -	17500	- -	8700	- -	444	- -	21.1	- -	3.72	- -	0.06	- -	412	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.135	- -	266	- -	19.5	- -	6430	- -	30800	- -	4190	- -	95.8	- -	19.7	- -	0.55	- -	< 0.02	U	376	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	270	- -	8.71	- -	17800	- -	44800	- -	9810	- -	124	- -	23.2	- -	0.79	- -	0.03	- -	408	- -	< 20.0	UJ	< 20.0	UJ
< 0.050	U	265	- -	9.56	- -	20200	- -	35600	- -	11900	- -	162	- -	27.4	- -	1.6	- -	0.06	- -	383	- -	< 20.0	U	< 20.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Cadmium, Total		Cadmium, Dissolved		Calcium, Total		Calcium, Dissolved		Carbonate as CaCO3		Chloride		Chromium, Total		Chromium, Dissolved		Cobalt, Total		Cobalt, Dissolved		Copper, Total		Copper, Dissolved		Cyanide, Total	
0.25*		0.25*		NA		NA		NA		230		100		100		NA		NA		9*		9*		0.0052	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag
0.03	J+	< 0.02	U	238000	- -	234000	- -	< 9.0	U	< 0.40	U	< 0.2	U	< 0.2	U	0.58	J+	0.49	J+	0.2	- -	< 0.1	U	< 0.010	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.02	U	< 0.02	U	173000	- -	175000	- -	< 9.0	U	< 0.40	U	< 0.2	U	0.2	J+	3.92	J+	2.69	J+	0.7	J+	0.3	J+	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.02	U	< 0.02	U	216000	- -	214000	- -	< 9.0	U	< 0.40	U	0.3	J+	0.3	J+	5.14	- -	4.8	- -	0.1	J+	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.22	J+	< 0.02	U	256000	- -	241000	- -	< 15	U	0.59	- -	3.2	- -	< 0.2	U	6.65	- -	1.5	J+	7.8	- -	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.03	J+	< 0.02	U	219000	- -	207000	- -	< 15	U	0.54	- -	0.2	J+	< 0.2	U	3.62	- -	2.59	- -	0.6	J+	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.05	J+	< 0.02	U	217000	- -	214000	- -	< 15	U	0.52	- -	0.2	J+	< 0.2	U	2.48	- -	1.83	- -	0.6	J+	< 0.1	U	< 0.0047	U
0.06	J+	< 0.02	U	241000	- -	213000	- -	< 15	U	< 0.40	U	< 0.2	U	< 0.2	U	4.57	- -	2.85	- -	0.7	J+	< 0.1	U	< 0.0047	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Fluoride		Hardness as CaCO3		Iron, Total		Iron, Dissolved		Lead, Total		Lead, Dissolved		Magnesium, Total		Magnesium, Dissolved		Manganese, Total		Manganese, Dissolved		Mercury, Total		Mercury, Dissolved		Methyl Mercury	
2		NA		300		300		2.5*		2.5*		NA		NA		50		50		12		12		NA	
mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	ng/L	Flag	ng/L	Flag	ng/L	Flag
0.67	- -	823	- -	28300	- -	1430	- -	0.19	J+	< 0.02	U	55600	- -	55800	- -	1680	- -	1600	- -	37.4	- -	1.4	- -	< 0.1	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.75	- -	613	- -	8200	- -	22.6	- -	0.25	J+	< 0.02	U	43800	- -	44100	- -	1610	- -	1390	- -	60.9	- -	4.4	- -	0.11	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.63	- -	757	- -	11300	- -	5190	- -	0.09	- -	< 0.02	U	52500	- -	52500	- -	2150	- -	2100	- -	11.5	- -	2.7	- -	0.15	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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1.02	- -	878	- -	81100	- -	37800	- -	16.8	- -	< 0.02	U	58100	- -	54200	- -	2130	- -	1700	- -	746	- -	3.3	- -	0.8	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.9	- -	760	- -	103000	- -	12500	- -	1.2	- -	0.03	J+	51800	- -	51200	- -	2120	- -	1740	- -	603	- -	8.9	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.9	- -	757	- -	110000	- -	36800	- -	1.52	- -	< 0.02	U	52600	- -	51900	- -	1980	- -	1810	- -	253	- -	1.7	- -	1.6	- -
0.76	- -	819	- -	135000	- -	43800	- -	1.19	- -	< 0.02	U	53000	- -	49700	- -	2660	- -	1990	- -	639	- -	2.8	- -	0.2	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

Molybdenum, Total		Molybdenum, Dissolved		Nickel, Total		Nickel, Dissolved		Nitrate + Nitrite as Nitrogen		Nitrogen, Total		Nitrogen, Total Kjeldahl (TKN)		Phosphorus, Total		Phosphorus, Dissolved		Potassium, Total		Potassium, Dissolved		Selenium, Total		Selenium, Dissolved	
600		600		52*		52*		NA		NA		NA		NA		NA		NA		NA		5		5	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 1.25	U	< 0.25	U	1	J+	0.9	J+	< 0.050	U	0.51	- -	0.51	- -	254	J+	< 40.0	U	3490	- -	3550	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.49	- -	0.43	- -	4.2	J+	3.4	J+	< 0.050	U	0.51	- -	0.51	- -	< 40.0	UJ	< 40.0	UJ	3110	- -	3050	- -	< 1.0	U	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.38	- -	0.39	- -	4.48	- -	4.18	- -	< 0.050	U	< 0.40	U	< 0.40	U	< 40.0	U	< 40.0	U	3680	- -	3740	- -	< 1.0	U	< 1.0	U
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0.26	- -	0.24	- -	6	- -	1.7	J+	< 0.050	U	0.96	J+	0.96	J+	4670	- -	553	- -	7270	- -	3620	- -	2.2	- -	< 1.0	U
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.47	- -	0.42	- -	3.4	- -	2.5	- -	< 0.050	U	0.48	J+	0.48	J+	2700	- -	< 40.0	UJ	3720	- -	3390	- -	< 1.0	U	< 1.0	U
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0.43	- -	0.36	- -	2.1	- -	1.6	J+	< 0.050	U	1.12	J+	1.12	J+	2880	- -	< 40.0	U	3610	- -	3280	- -	< 1.0	U	< 1.0	U
0.42	- -	0.35	- -	4.6	- -	2.7	- -	< 0.050	U	< 0.45	U	< 0.40	U	5610	- -	< 40.0	U	3670	- -	3130	- -	< 1.0	U	< 1.0	U
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Silver, Total		Silver, Dissolved		Sodium, Total		Sodium, Dissolved		Solids, Total Dissolved (TDS)		Solids, Total Suspended (TSS)		Sulfate		Thallium, Total		Thallium, Dissolved		Vanadium, Total		Vanadium, Dissolved		Zinc, Total		Zinc, Dissolved	
3.4		3.4		NA		NA		500		NA		250		0.24		0.24		835		835		120*		120*	
µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	mg/L	Flag	mg/L	Flag	mg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag
< 0.02	U	< 0.020	U	6980	- -	7100	- -	1020	- -	72	- -	460	- -	0.22	J+	< 0.02	U	< 0.2	U	< 0.2	U	1	J+	< 0.5	U
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< 0.04	U	< 0.04	U	9470	- -	9500	- -	776	- -	27	- -	319	- -	0.18	J+	0.04	J+	< 0.2	U	< 0.2	U	2.4	J+	1	J+
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< 0.02	U	< 0.02	U	6770	- -	6850	- -	956	- -	21.5	- -	405	- -	0.146	- -	0.056	- -	< 0.2	U	< 0.2	U	2.5	J+	2.7	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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0.24	- -	< 0.02	U	7300	- -	7020	- -	1060	- -	108	- -	473	- -	1.88	- -	< 0.02	U	15.5	- -	< 0.2	U	49.7	- -	2.1	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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< 0.02	U	< 0.02	U	8130	- -	8120	- -	924	- -	192	- -	415	- -	0.61	- -	< 0.02	U	1	- -	< 0.2	U	8.5	- -	1	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
0.02	- -	< 0.02	U	8420	- -	8270	- -	899	- -	153	- -	343	- -	0.72	- -	< 0.02	U	1	- -	< 0.2	U	8.6	- -	1.8	J+
0.03	- -	< 0.02	U	7630	- -	7200	- -	963	- -	1250	- -	378	- -	0.77	- -	< 0.02	U	1.1	- -	< 0.2	U	18	- -	2.3	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: NEZ PERCE TRIBE WATER RESOURCE DIV.
Address: PO BOX 365
LAPWAI, ID 83540
Attn: KEN CLARK

Batch #: 180618002
Project Name: MG WQS - 062018

Analytical Results Report

Sample Number 180618002-021 **Sampling Date** 6/12/2018 **Date/Time Received** 6/14/2018 3:45 PM
Client Sample ID YP-AS-7-S **Sampling Time** 11:30 AM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aluminum	0.0102	mg/L	0.01	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Antimony	0.0513	mg/L	0.001	6/28/2018 7:22:00 PM	HSW	EPA 200.8	
Arsenic	11.9	mg/L	0.1	6/28/2018 7:16:00 PM	HSW	EPA 200.8	
Dissolved Aluminum	ND	mg/L	0.00358	6/28/2018 7:13:00 PM	SDR	EPA 200.7	
Dissolved Antimony	0.0203	mg/L	0.001	7/10/2018 6:56:00 PM	HSW	EPA 200.8	
Dissolved Arsenic	11.2	mg/L	0.2	7/3/2018 1:46:00 PM	HSW	EPA 200.8	
Dissolved Iron	39.4	mg/L	0.01	6/28/2018 7:13:00 PM	SDR	EPA 200.7	
Dissolved Lead	0.000117	mg/L	0.001	7/5/2018 4:03:00 PM	HSW	EPA 200.8	J
Dissolved Manganese	1.56	mg/L	0.01	6/28/2018 7:13:00 PM	SDR	EPA 200.7	
Dissolved Thallium	0.000182	mg/L	0.001	7/5/2018 4:03:00 PM	HSW	EPA 200.8	J
Calcium	199	mg CaCO3/L	0.1	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Hardness	682	mg CaCO3/L	1	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Magnesium	44.8	mg CaCO3/L	0.1	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Iron	41.1	mg/L	0.02	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Lead	ND	mg/L	0.001	6/28/2018 7:22:00 PM	HSW	EPA 200.8	
Manganese	1.61	mg/L	0.01	6/28/2018 5:19:00 PM	SDR	EPA 200.7	
Mercury-Trace	0.0264	ug/L	0.025	6/21/2018 1:34:00 PM	SDR	EPA 1631e	
NO3/N+NO2/N	ND	mg/L	0.05	6/19/2018 10:40:00 AM	RPU	SM 4500 NO3F	
TSS	47.5	mg/L	1	6/19/2018 3:20:00 PM	GPB	SM 2540D	
Sulfate	391	mg/L	1	6/22/2018 7:38:00 PM	MER	EPA 300.0	M1
Thallium	0.000167	mg/L	0.001	6/28/2018 7:22:00 PM	HSW	EPA 200.8	J
TKN	ND	mg/L	0.5	6/22/2018 10:30:00 AM	RPU	SM4500NORGC	
Total Nitrogen	ND	mg/L		6/22/2018 10:30:00 AM	RPU	Calculation	
Total P	1.29	mg/L	0.01	6/21/2018 1:15:00 PM	RPU	SM4500PF	

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Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 11:45
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-7	**Basis:**	NA
Lab Code:	K1805697-007		

Dissolved Metals

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**5.5**		ug/L	4.0	1	07/02/18 13:51	06/19/18	
Antimony	6020A	**31.7**		ug/L	0.050	1	07/02/18 13:51	06/19/18	
Arsenic	6020A	**120000**		ug/L	50	100	07/02/18 13:25	06/19/18	
Barium	6020A	**23.5**		ug/L	0.050	1	07/02/18 13:51	06/19/18	
Beryllium	6020A	**0.126**		ug/L	0.020	1	07/02/18 13:51	06/19/18	
Boron	6010C	ND	U	ug/L	21	1	06/28/18 16:24	06/19/18	
Cadmium	6020A	ND	U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Calcium	6010C	**185000**		ug/L	21	1	06/28/18 16:24	06/19/18	
Chromium	6020A	ND	U	ug/L	0.20	1	07/02/18 13:51	06/19/18	
Cobalt	6020A	**2.93**		ug/L	0.020	1	07/02/18 13:51	06/19/18	
Copper	6020A	**0.10**		ug/L	0.10	1	07/02/18 13:51	06/19/18	
Iron	6010C	**37300**		ug/L	21	1	06/28/18 16:24	06/19/18	
Lead	6020A	ND	U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Magnesium	6010C	**44400**		ug/L	5.3	1	06/28/18 16:24	06/19/18	
Manganese	6010C	**1530**		ug/L	1.1	1	06/28/18 16:24	06/19/18	
Molybdenum	6020A	**0.46**		ug/L	0.10	1	07/02/18 13:51	06/19/18	
Nickel	6020A	**3.32**		ug/L	0.20	1	07/02/18 13:51	06/19/18	
Phosphorus	6010C	**62**		ug/L	42	1	06/28/18 16:24	06/19/18	
Potassium	6010C	**3000**		ug/L	420	1	06/28/18 16:24	06/19/18	
Selenium	6020A	ND	U	ug/L	1.0	1	07/02/18 13:51	06/19/18	
Silver	6020A	ND	U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Sodium	6010C	**5690**		ug/L	210	1	06/28/18 16:24	06/19/18	
Thallium	6020A	ND	U	ug/L	0.020	1	07/02/18 13:51	06/19/18	
Vanadium	6020A	ND	U	ug/L	0.20	1	07/02/18 13:51	06/19/18	
Zinc	6020A	**3.8**		ug/L	2.0	1	07/02/18 13:51	06/19/18	

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Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/12/18 11:45
Sample Matrix:	Water	**Date Received:**	06/15/18 09:40
Sample Name:	YP-AS-7	**Basis:**	NA
Lab Code:	K1805697-007		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6020A	**8.8**		ug/L	4.0	1	07/02/18 13:48	06/19/18	
Antimony	6020A	**57.1**		ug/L	0.050	1	07/02/18 13:48	06/19/18	
Arsenic	6020A	**125000**		ug/L	50	100	07/02/18 12:54	06/19/18	
Barium	6020A	**25.9**		ug/L	0.050	1	07/02/18 13:48	06/19/18	
Beryllium	6020A	**0.175**		ug/L	0.020	1	07/02/18 13:48	06/19/18	
Boron	6010C	ND	U	ug/L	21	1	06/28/18 15:50	06/19/18	
Cadmium	6020A	ND	U	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Calcium	6010C	**186000**		ug/L	21	1	06/28/18 15:50	06/19/18	
Chromium	6020A	ND	U	ug/L	0.20	1	07/02/18 13:48	06/19/18	
Cobalt	6020A	**3.05**		ug/L	0.020	1	07/02/18 13:48	06/19/18	
Copper	6020A	ND	U	ug/L	0.10	1	07/02/18 13:48	06/19/18	
Iron	6010C	**39100**		ug/L	21	1	06/28/18 15:50	06/19/18	
Lead	6020A	**0.066**		ug/L	0.020	1	07/02/18 13:48	06/19/18	
Magnesium	6010C	**43200**		ug/L	5.3	1	06/28/18 15:50	06/19/18	
Manganese	6010C	**1530**		ug/L	1.1	1	06/28/18 15:50	06/19/18	
Molybdenum	6020A	**0.43**		ug/L	0.10	1	07/02/18 13:48	06/19/18	
Nickel	6020A	**3.39**		ug/L	0.20	1	07/02/18 13:48	06/19/18	
Phosphorus	6010C	**261**		ug/L	42	1	06/28/18 15:50	06/19/18	
Potassium	6010C	**2900**		ug/L	420	1	06/28/18 15:50	06/19/18	
Selenium	6020A	ND	U	ug/L	1.0	1	07/02/18 13:48	06/19/18	
Silver	6020A	ND	U	ug/L	0.020	1	07/02/18 13:48	06/19/18	
Sodium	6010C	**5540**		ug/L	210	1	06/28/18 15:50	06/19/18	
Thallium	6020A	**0.094**		ug/L	0.020	1	07/02/18 13:48	06/19/18	
Vanadium	6020A	ND	U	ug/L	0.20	1	07/02/18 13:48	06/19/18	
Zinc	6020A	**4.4**		ug/L	2.0	1	07/02/18 13:48	06/19/18	

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Analytical Report

Client:	Midas Gold Mine, Inc	**Service Request:**	K1805697
Project:	Midas Gold Mine	**Date Collected:**	06/11-13/18
Sample Matrix:	Water	**Date Received:**	06/15/18

Mercury, Total

Prep Method:	METHOD	Units:	ng/L
Analysis Method:	1631E	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
YP-T-49	K1805697-001	0.5	1	06/18/18	06/19/18	9.6	
YP-T-40	K1805697-002	0.5	1	06/18/18	06/19/18	1.4	
YP-B-03	K1805697-003	0.5	1	06/18/18	06/19/18	ND	
YP-HP-51	K1805697-004	0.5	1	06/18/18	06/19/18	9.1	
YP-AS-6	K1805697-005	0.5	1	06/18/18	06/19/18	1.7	
YP-AS-3	K1805697-006	0.5	1	06/18/18	06/19/18	4.2	
YP-AS-7	K1805697-007	0.5	1	06/18/18	06/19/18	18.8	
YP-AS-4-DS	K1805697-008	0.5	1	06/18/18	06/19/18	5.6	
YP-AS-1-DS	K1805697-009	0.5	1	06/18/18	06/19/18	95.5	
YP-AS-1-US	K1805697-010	0.5	1	06/18/18	06/19/18	97	
Method Blank 1	K1805697-MB1	0.5	1	06/18/18	06/19/18	ND	
Method Blank 2	K1805697-MB2	0.5	1	06/18/18	06/19/18	ND	
Method Blank 3	K1805697-MB3	0.5	1	06/18/18	06/19/18	ND	