Nez Perce

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

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EPA Region 10
Office of the Regional Administrator

June 5, 2019

SENT VIA OVERNIGHT DELIVERY, SIGNATURE REQUIRED

Mr. Stephen Quin
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12550 W. Explorer
Boise, ID 83713

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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:

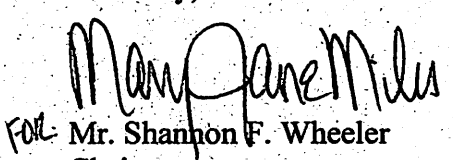
Shannon F. Wheeler, Chairman
Nez Perce Tribe
P.O. Box 305
Lapwai, ID 83540
nptec@nezperce.org

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
U.S. EPA, Region 10
1200 Sixth Avenue
Mail Code: 21-B03
Seattle, WA 98101

Mr. James Werntz, Director
U.S. EPA, Idaho Operations Office
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Ms. Allyn Stern, Regional Counsel
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Mr. John Tippets, Director
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Mr. Gary Spackman, Director
Idaho Department of Water Resources
PO Box 83720
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Ms. Laurel Sayer, President
Midas Gold Idaho, Inc.
405 S. 8th Street, Suite 201
Boise, ID 83702

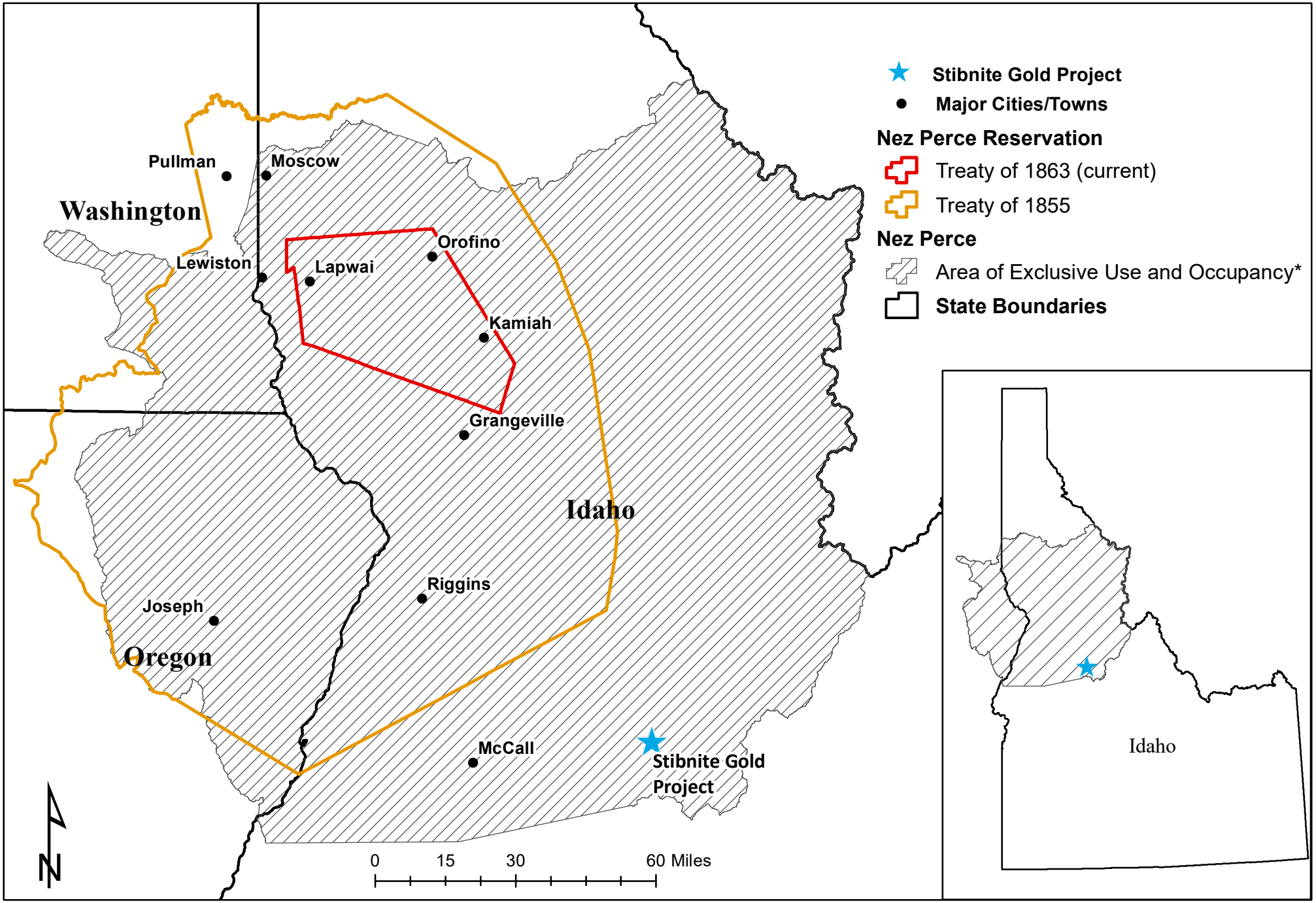
Mr. Anthony Botello, District Ranger
Payette National Forest
500 North Mission Street
McCall, ID 83638

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

Exhibit 1 - Nez Perce Ceded Lands



*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

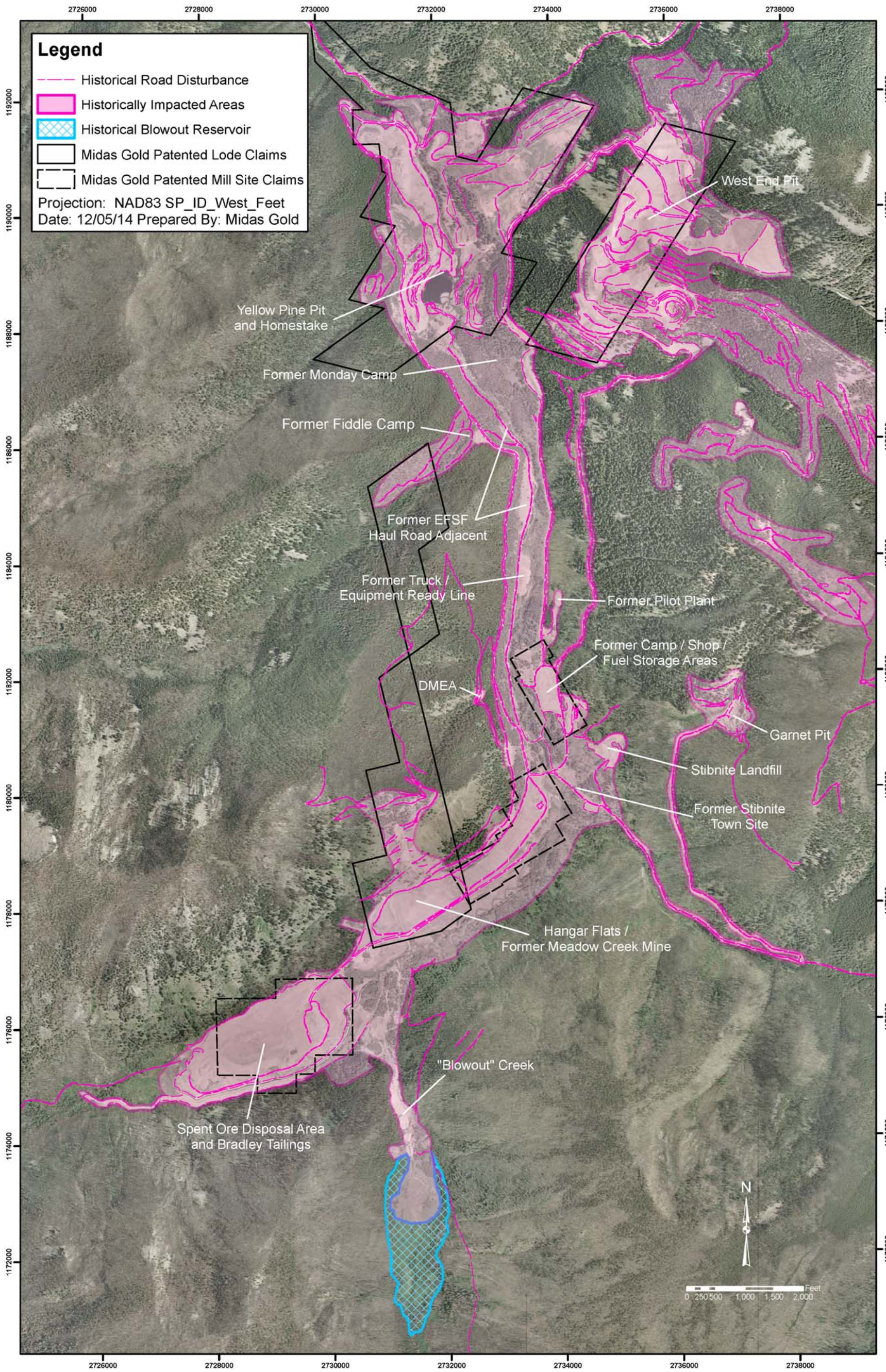


Exhibit 3 – Data Collected from the Glory Hole Reach in the EFSFSR

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

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

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

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

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

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

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

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

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

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

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

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

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	- -

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	- -

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	- -

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

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

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

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+

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

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

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+

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

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

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

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

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

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

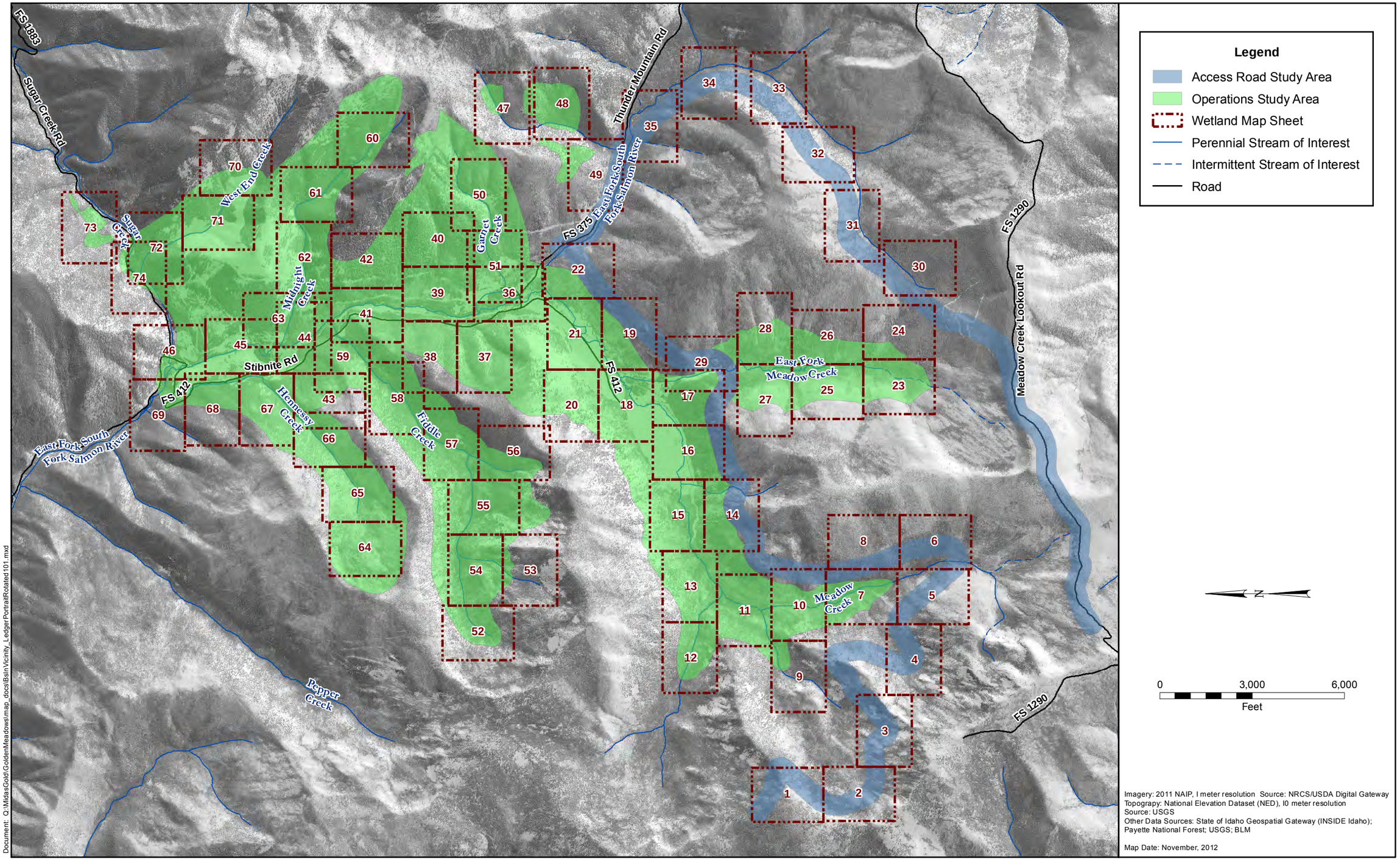
"The Keyway Marsh drains to the Keyway Marsh Outlet site (YP-S-10), located at the eastern end of the marsh complex downgradient from the Keyway Dam (see photos in Appendix G). From the YP-S-10 sample site, water flows into two channels, one to the north and one to the south. Both channels flow directly 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."

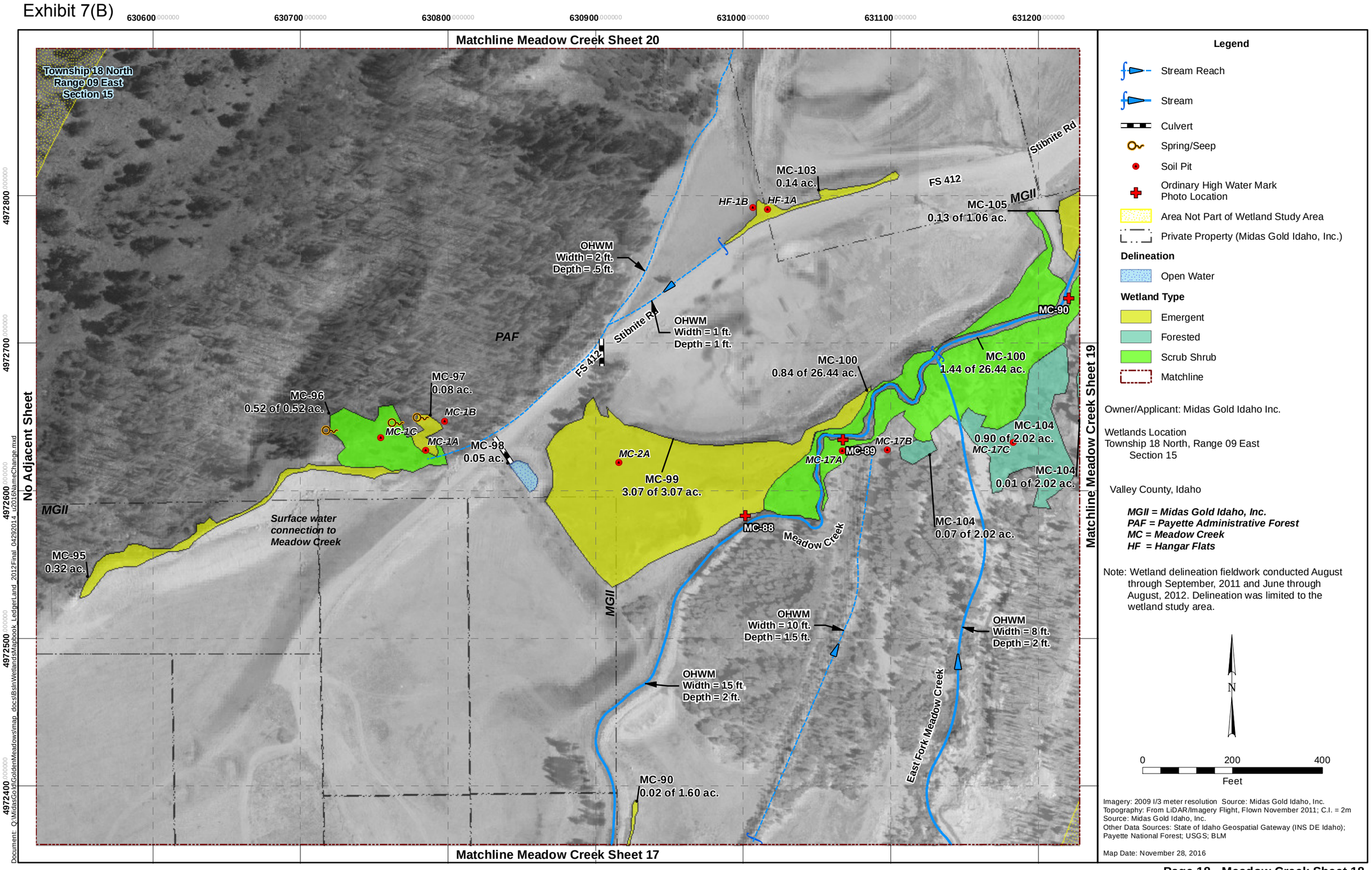
Figure 7C. Photo of the northern Keyway Marsh outlet (YP-S-10) from the Surface Water Quality Baseline Study, Appendix G, May 2013 Site Photos, page 18. Photo caption reads, "YP-S-10, Keyway Marsh outlet. Looking east and downstream at north channel flowing into Meadow Creek (flows downstream to left).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

Exhibit 7(A)



Wetlands Index Map
Stibnite Gold Project

Exhibit 7(B)



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

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

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

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

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

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	- -

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

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
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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	37.9	- -	38.5	- -	42.2	- -	1590	- -	1500	- -	19.2	- -	17.7	- -	0.02	- -	< 0.02	U	140	- -	46.6	J+	45.9	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	- -
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	2210	- -	2270	- -	3.3	- -	995	- -	919	- -	32	- -	25	- -	0.07	- -	< 0.02	U	82	- -	23.1	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	- -
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NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 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+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	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	1790	- -	1750	- -	4	- -	906	- -	817	- -	33.6	- -	27.3	- -	0.06	- -	< 0.02	U	106	- -	23.6	J+	20.3	J+
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 0.050	U	1250	- -	2360	- -	213	- -	2950	- -	5540	- -	118	- -	354	- -	0.79	- -	2.67	- -	104	- -	< 20.0	U	21.8	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	- -

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
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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	- -
< 0.02	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	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	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	- -
NM	- -	NM	- -	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
< 0.40	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	- -
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	- -
NM	- -	NM	- -	NM	- -	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	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	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	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	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	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	- -
NM	- -	NM	- -	NM	- -	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	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	- -
NM	- -	NM	- -	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
1.16	- -	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.37	- -	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
3.92	- -	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
1.02	- -	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
2.35	- -	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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	- -
NM	- -	NM	- -	NM	- -	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	- -	< 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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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	- -

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

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	- -

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	- -

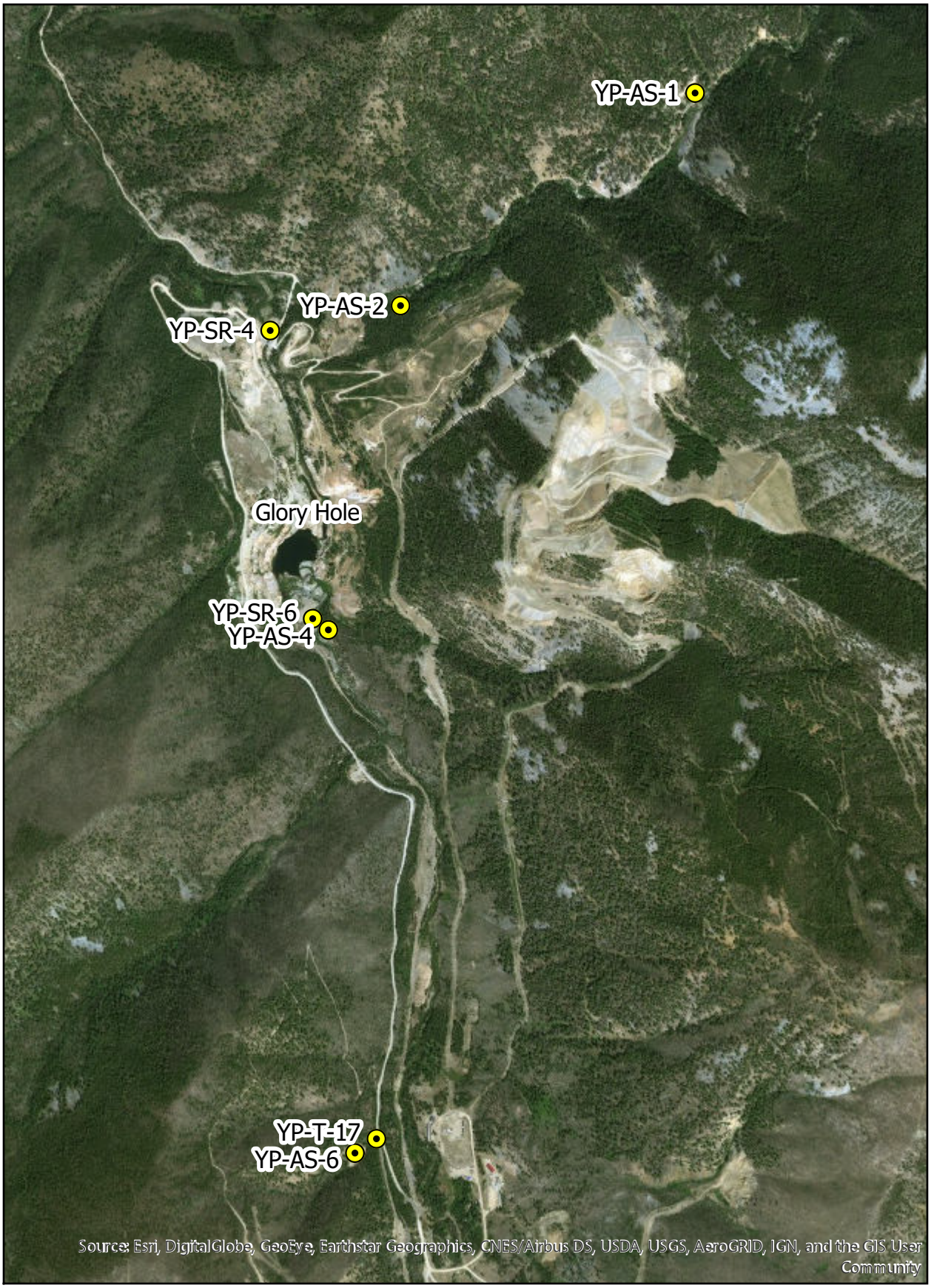
Exhibit 11 - Photos of the Bailey Tunnel Adit

"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

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

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

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

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
Client Sample ID YP-AS-2-S
Matrix Water
Comments

Sampling Date 6/13/2018
Sampling Time 4:30 PM

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

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	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID: D00013; MT:CERT0028; NM: ID00013;NV: D00013; OR: D200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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

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

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

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	- -	11800	- -	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	- -

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

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.
dba ALS Environmental

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	

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)

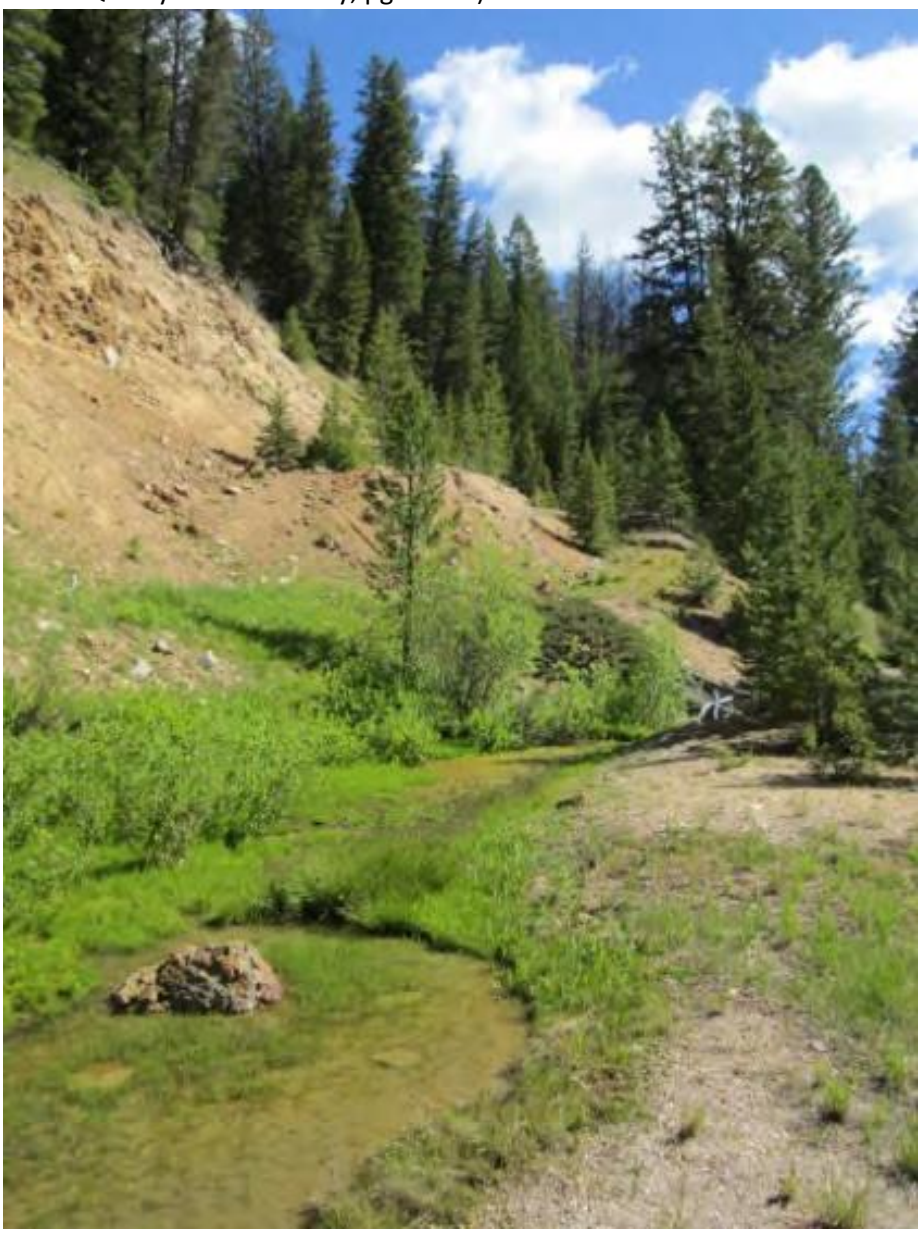

Figure 16A. Photo of the Bonanza Adit Seep (YP-AS-1) from the Surface Water Quality Baseline Study, Appendix G, June 2012 Site Photos, page 1. Photo caption reads, "YP-AS-1, Bonanza Tunnel adit. Looking east and downstream at source with worked hillside visible in upper left, June 2012."

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

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	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID: D00013; MT:CERT0028; NM: ID00013;NV: D00013; OR: D200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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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		

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	

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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	

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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

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

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

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

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

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	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID: D00013; MT:CERT0028; NM: ID00013;NV: D00013; OR: D200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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.

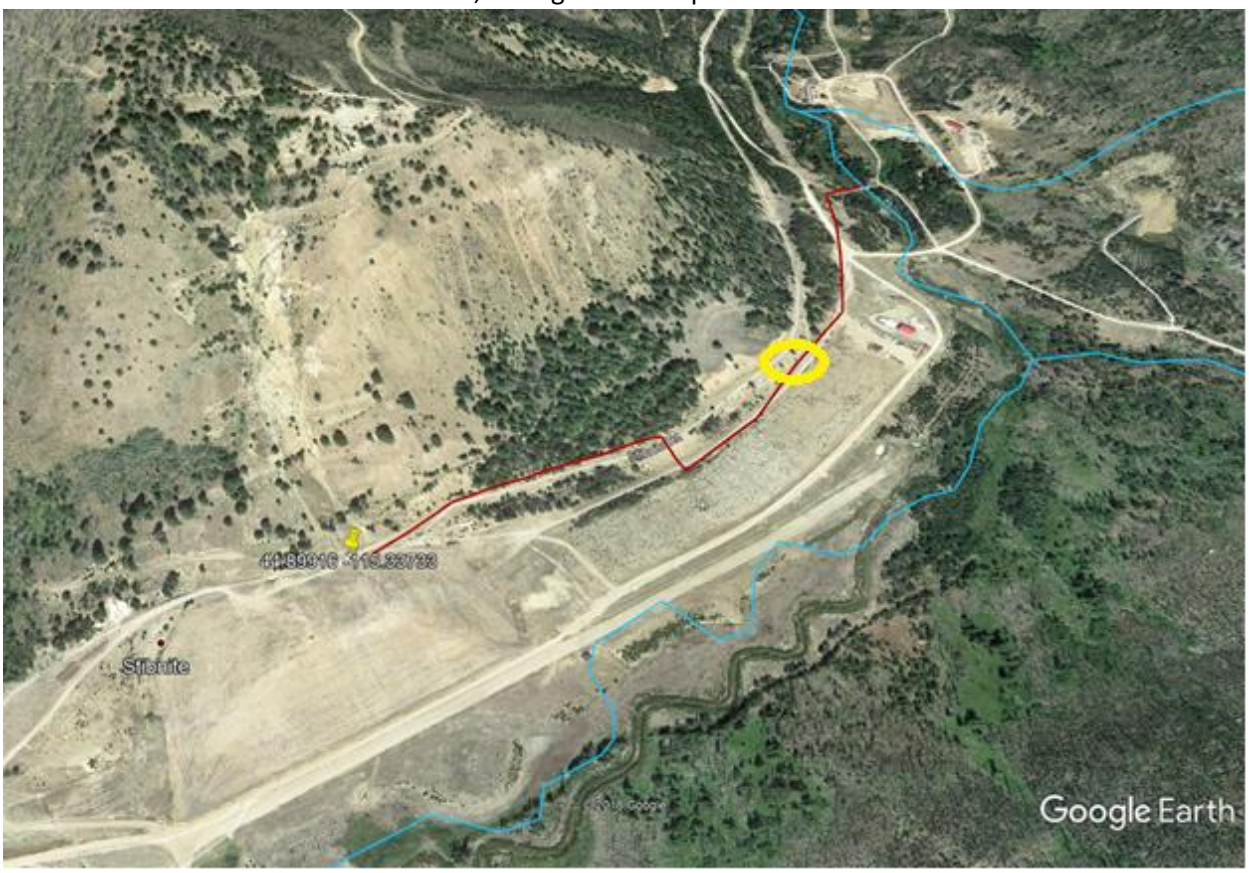

Figure 20A. Aerial view of the flow path that a NPT staff member witnessed during May of 2018. The yellow circle denotes where adit flows went subsurface three weeks later (June, 2018) during a follow-up site visit.

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	- -
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< 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
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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
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< 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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NM	- -	NM	- -	NM	- -	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	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	- -
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	- -
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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	- -
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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
0.67	- -	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	- -
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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	- -
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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
< 1.25	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
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
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
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	- -

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
NM	- -	NM	- -	NM	- -	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	9470	- -	9500	- -	776	- -	27	- -	319	- -	0.18	J+	0.04	J+	< 0.2	U	< 0.2	U	2.4	J+	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	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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
< 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	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -
NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -	NM	- -

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 180618002-021
Client Sample ID YP-AS-7-S
Matrix Water
Comments

Sampling Date 6/12/2018
Sampling Time 11:30 AM

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

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	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID: D00013; MT:CERT0028; NM: ID00013;NV: D00013; OR: D200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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 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	

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 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	

ALS Group USA, Corp.
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Analytical Report

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