

Abbreviated Preliminary Assessment for Baldy Mountain Road Landfill Site

Bonner County



**State of Idaho
Department of Environmental Quality**

December 2012



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

C.L. "Butch" Otter, Governor
Curt Fransen, Director

December 20, 2012

Mr. Ken Marcy
U.S. Environmental Protection Agency
12928 SW 276th Street
Vashon, WA 98070

RE: Abbreviated Preliminary Assessment Report for the Baldy Mountain Road Landfill Site,
Bonner County, Idaho

Dear Mr. Marcy:

The Baldy Mountain Road Landfill site is located 2.75 miles west-northwest of Sandpoint on Baldy Mountain Road at roughly 12500 Baldy Mountain Road.

Attached are two copies of DEQ's Abbreviated Preliminary Assessment report for the Baldy Mountain Road Landfill site.

A site inspection involving direct observations confirmed that contaminants of concern, including hazardous materials and petroleum products, do not have the potential to exist in concentrations that could present a threat to human health or the environment. No deleterious materials or petroleum products were evident at the site. No water discharges or evidence of sustained discharge such as aquatic vegetation was found around the site perimeter.

Well logs local to the site demonstrate a restrictive layer confining the lower strata at generally 130 feet. Wells in the area draw water from strata below 235 feet. These observations indicate the landfilled material is not a threat to ground water quality. An area immediately north of the site was assessed by DEQ to be sufficiently isolated from ground water to both allow land farming of petroleum contaminated soil by a private party and cleanup by DEQ of a large (2,800 cubic yards) petroleum site.

The air, soil, and water pathways are not complete. No surface water or evidence of surface water discharge such as aquatic plant assemblages were found associated with the site. No airborne pathways exist to any residences, because the solid waste is covered with soil and only the occasional piece of waste has been day lighted by frost heaving.

Mr. Ken Marcy
December 20, 2012
Page 2

The Baldy Mountain Road Landfill site is located in close proximity to the 3 year time of travel (TOT) source water delineation zone. No drinking water sources, wells, or ground water sources exist on the site.

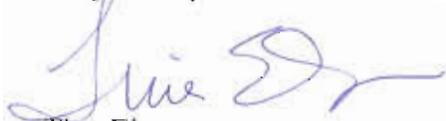
Based on existing conditions and uses, historic information, observations made during the site visit, and visual analysis of the site; potential pathway of contaminants to receptors and potential exposures to ecological and human receptors do not exist. **DEQ recommends the determination of the Baldy Mountain Road Landfill site as No Remedial Action Planned (NRAP).**

A link to the Abbreviated Preliminary Assessment Report for the site can also be found on DEQ's Preliminary Assessment Web page at:

<http://www.deq.idaho.gov/waste-mgmt-remediation/remediation-activities/mining-preliminary-assessments.aspx>

If you have any questions about these sites, the report, or DEQ's recommendations, please do not hesitate to call me at (208) 373-0563.

Respectfully,



Tina Elayer
Mine Waste Specialist

attachments

cc: City of Sandpoint
Baldy Mountain Road Landfill PA File

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Introduction

This is an abbreviated preliminary assessment (APA) for the Baldy Mountain Road Landfill near Sandpoint, Idaho. This document provides the rationale for the No Remedial Action Planned (NRAP) determination and that no additional analysis or site investigation is necessary for the Baldy Mountain Road Landfill site. Section 1 provides the APA checklist filled out by the assessor to determine that an APA was warranted and that no further action is required from the Idaho Department of Environmental Quality (DEQ). The following sections contain additional relevant information and evidence to support the APA, including historical and geologic information (Section 2), photographs (Section 3), maps (Section 4), and references generated during the site visit or desktop research (Section 5).

Preparer: Geoff Harvey **Date:** 10/24/2012
Idaho Department of Environmental Quality
2110 Ironwood Parkway
Coeur d'Alene, ID 83814
208-769-1422
geoff.harvey@deq.idaho.gov

Site Name: Baldy Mountain Road Landfill

Previous Names (aka): N/A

Site Owner: City of Sandpoint

Address: 1123 Lake Street
Sandpoint, ID 83864

Site Location: The now abandoned Baldy Mountain Road Landfill site is located 2.75 miles west-northwest of Sandpoint on Baldy Mountain Road at roughly 12500 Baldy Mountain Road.

Township 57 North, Range 2 West, Section 7

Latitude: 48.29819°N **Longitude:** -116.62722°W

Description of release (or potential release) and its probable nature:

The abandoned Baldy Mountain Road Landfill was investigated by DEQ on October 18, 2012, for potential releases of organic contaminants and heavy metals by airborne, surface water, or ground water pathways. Additionally, DEQ investigated potential discharges of other deleterious materials, such as petroleum products. No deleterious materials or petroleum products were evident at the site. No water discharges or evidence of sustained discharge such as aquatic vegetation was found around the site perimeter. Well logs local to the site demonstrate a restrictive layer confining the lower strata at generally 130 feet. Wells in the area draw water from strata below 235 feet. These observations indicate the landfilled material is not a threat to ground water quality. An area immediately north of the site was assessed by DEQ to be

sufficiently isolated from ground water to both allow land farming of petroleum contaminated soil by a private party and cleanup by DEQ of a large (2,800 cubic yards) petroleum site.

Section 1. APA Checklist

Task 1—Superfund Eligibility Evaluation

Assessor, if all answers are “no,” continue to task 2; otherwise, explain any “yes” answers below and then skip to task 3.	YES	NO
1. Is the site currently in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) or an “alias” of another site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the site being addressed by some other remediation program (i.e., federal, state, or tribal)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Are the hazardous substances that may be released from the site regulated under a statutory exclusion (e.g., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the Nuclear Regulatory Commission, Uranium Mill Tailings Radiation Control Act, or Occupational Safety and Health Administration)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Are the hazardous substances that may be released from the site excluded by policy considerations (i.e., deferred to Resource Conservation and Recovery Act corrective action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is there sufficient documentation to demonstrate that there is no potential for a release that constitutes risk to human or ecological receptors (e.g., comprehensive remedial investigation equivalent data showing no release above applicable or relevant and appropriate requirements (ARARs), completed removal action, documentation showing that no hazardous substance releases have occurred, or an EPA-approved risk assessment)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Assessor, please explain all “yes” answer(s):

Regarding question 5: A site inspection involving direct observations confirmed that contaminants of concern, including hazardous materials and petroleum products do not have the potential to exist in concentrations that could present a threat to human health or the environment. No surface water or evidence of surface water discharge such as aquatic plant assemblages was found associated with the site. No airborne pathways exist to any residences, because the solid waste is covered with soil and only the occasional piece of waste has been day lighted by frost heaving. The closest residence to the Baldy Mountain Road Landfill site is approximately 400 feet to the west. The closest public water system (Baldy Ridge Estates PWS ID1090004) is approximately 3,180 feet southwest. As stated above, the pathway to ground water is precluded at 135 feet below surface level by a clay aquitard.

Task 2—Initial Site Evaluation

If information is not available to make a “yes” or “no” response below, further investigation may be needed. In these cases, the assessor should determine whether an APA is appropriate.

If the answer is “no” to any of questions 1, 2, or 3, proceed directly to task 3.	YES	NO
1. Does the site have a release or a potential to release?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Does the site have uncontained sources containing CERCLA-eligible substances?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site have documented on-site, adjacent, or nearby targets?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If the answers to questions 1, 2, and 3 above were all “yes,” then answer questions 4–7 before proceeding to task 3.	YES	NO
4. Does documentation indicate that a target (e.g., drinking water wells, drinking surface water intakes, etc.) has been exposed to a hazardous substance released from the site?	<input type="checkbox"/>	<input type="checkbox"/>
5. Is there an apparent release at the site with no documentation of exposed targets, but targets are on site or immediately adjacent to the site?	<input type="checkbox"/>	<input type="checkbox"/>
6. Is there an apparent release and no documented on-site targets or targets immediately adjacent to the site, but targets are nearby (e.g., within 1 mile)?	<input type="checkbox"/>	<input type="checkbox"/>
7. Are there uncontained sources containing CERCLA hazardous substances, a potential to release with targets present on site or in proximity to the site, but no indication of a hazardous substance release?	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

The Baldy Mountain Road Landfill Site is located near a few occupied dwellings on large acreages. No hazardous materials were evident during the site visit and none are suspected of being disposed of on the site. Surface water drainage from the land filled sites was not located nor was any evidence of such drainage. Any human health risks or ecological health risks associated with site discharge are unlikely or more likely non-existent.

During the site assessment, DEQ used references from several different documents, including Google Earth maps, Idaho Department of Water Resource (IDWR) ground water well logs, and local historical knowledge.

Table 1 parallels the questions above and should be used by the assessor to make decisions during task 3. Table 1 identifies different types of site information and provides some possible recommendations for further site assessment activities based on that information. The assessor should use Table 1 in determining the need for further action at the site, based on the answers to the questions in task 2. Assessors should use professional judgment when evaluating a site. An assessor’s individual judgment may be different from the general recommendations for a site given below.

Table 1. Site assessment decision guidelines for a site.

Suspected/Documented Site Conditions	EPA-Recommended Site Assessment Activities
1. There are no releases or potential to release.	APA
2. No uncontained sources with CERCLA-eligible substances are present on site.	APA
3. There are no on-site, adjacent, or nearby targets.	APA
4. There is documentation indicating that a target (e.g., drinking water wells, drinking surface water intakes, etc.) has been exposed to a hazardous substance released from the site.	APA → SI or PA/SI
5. There is an apparent release at the site with no documentation of exposed targets, but there are targets on site or immediately adjacent to the site.	APA → SI or PA/SI
6. There is an apparent release and no documented on-site targets and no documented targets immediately adjacent to the site, but there are nearby targets. Nearby targets are those targets that are located within 1 mile of the site and have a relatively high likelihood of exposure to a hazardous substance migration from the site.	Full PA
7. There is no indication of a hazardous substance release, and there are uncontained sources containing CERCLA hazardous substances, but there is a potential to release with targets present on site or in proximity to the site.	Full PA

Task 3—DEQ Site Assessment Decision

When completing task 3, the assessor should use task 2 and Table 1 to select the appropriate decision. For example, if the answer to question 1 in task 2 was “no,” then an APA is appropriate and the “NRAP” box below should be checked. Additionally, if the answer to question 4 in task 2 is “yes,” then two options are available (as indicated in Table 1): (1) proceed with an APA and check the “Lower Priority SI” or “Higher Priority SI” box below or (2) proceed with a combined PA/SI.

Check the box that applies based on the conclusions of the APA checklist:

- | | |
|---|--|
| <input checked="" type="checkbox"/> No Remedial Action Planned (NRAP) | <input type="checkbox"/> Defer to NRC |
| <input type="checkbox"/> Higher Priority SI | <input type="checkbox"/> Refer to Removal Program |
| <input type="checkbox"/> Lower Priority SI | <input type="checkbox"/> Site is being addressed as part of another CERCLIS site |
| <input type="checkbox"/> Defer to RCRA Subtitle C | <input type="checkbox"/> Other: _____ |

DEQ Reviewer:



Geoff Harvey

December 20, 2012

Please explain the rationale for your decision:

The Baldy Mountain Landfill site received municipal solid waste for an eight year period from roughly 1966 to 1973. A site inspection involving direct observations confirmed that solid waste was landfilled at the site and frost heave action in the sandy soil occasionally brought pieces of waste to the surface. These were large appliance goods and tires. Most other waste has likely decomposed in the moist sandy aerated soils. No hazardous materials were evident during the site visit.

No surface water or evidence of surface water (seeps or areas of aquatic vegetation) was found associated within the site perimeter, which is down gradient of the fill. The ground water of the general area is found 235 below ground surface and is protected from contamination from above by an aquitard located 135 feet below ground level. The closest residence to the site is 400 feet to the west, but the waste is covered severing any airborne transmission of contaminants. The surface and ground water pathways are also incomplete.

As a result of DEQ's research and observations, the department recommends an NRAP designation for the Baldy Mountain Road Landfill. Sections 2 through 5 provide further support for this determination.

Section 2. Historical and Geologic Information

Numerous sources were used during desktop research prior to visiting the site. DEQ could not improve or expand upon these reports.

Landfill History: Local historical sources informed DEQ that the Baldy Mountain Road Landfill site was used for illegal solid waste disposal for many years. However, the City of Sandpoint closed the landfill near Chuck Slough (located under Travers Park) in 1966. By 1973, the Colburn Landfill was accepting all of Sandpoint's solid waste and active landfilling at the Baldy Mountain Road site ceased. The city covered the waste and placed fencing and a gate to control illegal disposal. The Baldy Mountain Road Landfill site received solid waste in significant volume for at most eight years.

Geologic Features: No geology or hydrogeology of the specific area could be located. However, the immediate area was assessed in preparation of siting a large petroleum contaminated soil land farming activity immediately to the north of the landfill. The best available information was from logs of private wells documented by IDWR. Both well logs show a sand, gravel, and boulder mix in the upper 8 to 100 feet below surface level (bsl), a layer of decomposed granite from 10 to 135 feet bsl and a soft clay layer at 135 feet bsl of about 3 feet thickness. Below the clay layer, granite of various hardness and fracture is found. Reliable sources of ground water are not encountered until roughly 235 feet bsl with some as much as nearly 400 feet bsl. The geology and hydrogeology indicates that groundwater is at depths over 235 feet and is protected from contamination from above by an aquitard located at 135 feet bsl.

Section 3. Site Conditions and Photographs

All of the Baldy Mountain Road Landfill photographs in this section were taken by DEQ on October 18, 2012.

Photo 1 shows tires exposed by excavation at the edge of the Baldy Mountain Road Landfill.



Photo 1. Tires exposed by excavation on Baldy Mountain Road Landfill site.

Photo 2 shows the general surface of the landfill and some of the appliances that are exposed in a few locations.



Photo 2. Waste appliances found across landfill surface.

Section 4. Maps

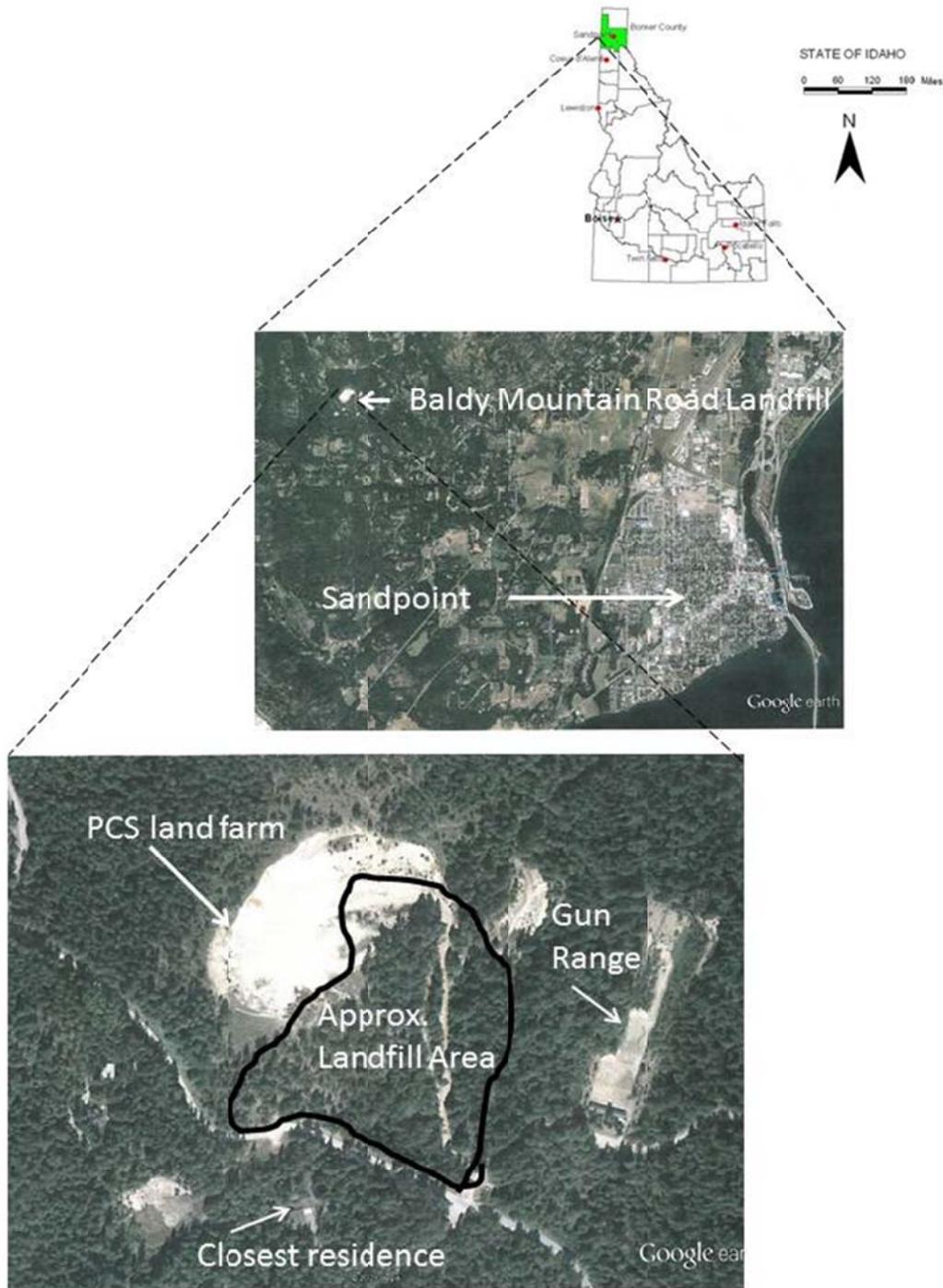


Figure 1. Location of the Baldy Mountain Road Landfill in Bonner County, Idaho.

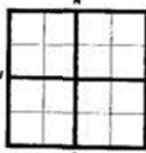
(Source: Google Earth)

Form 238-7
7/98
Starships Consulting and
Management Services

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Inspected by		
Twp	Rge	Sec
Lat	1/4	1/4
Long	1/4	

1. WELL TAG NO. D0053939
Drilling Permit No: 248591
Other IDWR No. _____
2. OWNER BRUAN, DENNIS Well Number: 1351
Name BRUAN, DENNIS
Address 805 EAGLE WOOD DR.
City ZIONSVILLE State IN Zip 46077
3. LOCATION OF WELL by legal description
sketch map location must agree with written location



Twp. 57N North or South
Rge. 02W East or West
Sec. 07 S 1/4 SW 1/4 SW 1/4
Gov't Lot _____ County BONNER
Latitude: N48:17:310 Longitude: W116:36:535
Address of Well Site 4 JANISH DR.
City SANDPOINT

(Give at least name of road + distance to road or landmark)
Lt. 4 Blk. _____ Sub. Name ALDER PINE EST.

4. USE:
 Domestic Municipal Monitor Irrigation
 Thermal Injection Other _____
5. TYPE OF WORK check all that apply (Replacement, etc.)
 New Well Modify Abandonment Other _____
6. DRILL METHOD
 Air Rotary Cable Mud Rotary Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	19	400 LBS	OVERBORE

Was drive shoe used? Y N Shoe Depth(s) 19
Was drive shoe seal tested? Y N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+1	19	.250	STEEL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	-5	260	.200	PVC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS
 Perforations Method SKILL SAW
 Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
225	260	1/8X6	70	4	PVC	<input type="checkbox"/>	<input checked="" type="checkbox"/>

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
0 ft. below ground Artesian pressure 1 lb.
Depth flow encountered 235 ft. Describe access port or control devices: pressure seal w/gauge
57N 2W 7

11. WELL TESTS:
 Pump Bailor Air Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
10			1HR

Water Temp COLD Bottom Hole Temp COLD
Water Quality test or comments: GOOD
Depth first Water encountered 96

12. LITHOLOGIC LOG:(Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality, Temperature	Water	Y	N
10	0	2	Top Soil		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	2	8	Brwn Med. Clay & Gravel		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	8	19	Decomp. Brwn Granite		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	19	56	Decomp. Brwn Granite		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	56	96	Brwn & White Soft Granite		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	96	135	Whit & Gray Soft Granite 1/2 gpm		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	135	138	White Clay		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	138	165	Brwn & wht Soft Granite		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	165	235	Gry & Wht Med. Granite		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	235	258	Gry, Blk & Whi Granite		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	258	260	Broken Granite 10gpm		<input checked="" type="checkbox"/>	<input type="checkbox"/>

RECEIVED
OCT 10 2007
IDWR/North

Completed Depth 260 (Measurable)
Date: Started 9/4/2007 Completed 9/5/2007

13. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
Firm Name H2O Well Service, Inc. Firm No. 448
Firm Official Bob Kern Date 9-11-07
and
Supervisor or Operator Bob Kern Date 9/6/2007
BOB KERN (Sign Once if Firm Official and Operator)

Figure 2. Braun well log showing major substrates lithology in the vicinity of the Baldy Mountain Road Landfill.

(Source: IDWR)



RECEIVED
APR - 7 1993 USE TYPEWRITER OR BALLPOINT PEN

STATE OF IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

<p>1. WELL OWNER Name <u>Martin McBirney</u> Address <u>6075 Baldy Mtn. Rd. Sdpt. Idaho</u> Drilling Permit No. <u>96-93-N-10-000</u> Water Right Permit No. _____</p>	<p>7. WATER LEVEL Static water level _____ feet below land surface. Flowing? <input type="checkbox"/> Yes <input type="checkbox"/> No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug Temperature _____ °F. Quality _____ <small>Describe artesian or temperature zones below.</small></p>																																																																						
<p>2. NATURE OF WORK <input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement <input type="checkbox"/> Well diameter increase <input type="checkbox"/> Modification <input type="checkbox"/> Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)</p>	<p>8. WELL TEST DATA <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Air <input type="checkbox"/> Other _____</p> <table border="1"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td>8-12 GPM</td> <td>405</td> <td>2</td> </tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	8-12 GPM	405	2																																																																
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<p>3. PROPOSED USE <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitor <input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection <input type="checkbox"/> Other _____ (specify type)</p>	<p>9. LITHOLOGIC LOG 105011</p> <table border="1"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>8"</td> <td>+1</td> <td>2</td> <td>Topsoil</td> <td></td> <td>X</td> </tr> <tr> <td>8"</td> <td>2</td> <td>18</td> <td>Sand, Gravel, Boulders</td> <td></td> <td>X</td> </tr> <tr> <td>6"</td> <td>18</td> <td>110</td> <td>Sand, Gravel, Boulders</td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>110</td> <td>135</td> <td>Decomposed Granite (DG) Broken very soft</td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>135</td> <td>207</td> <td>DG w/ S&P color Med</td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>207</td> <td>210</td> <td>DG med/ soft 1-2 gpm</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>210</td> <td>350</td> <td>salt & peper rock</td> <td></td> <td>x</td> </tr> <tr> <td></td> <td>350</td> <td>351</td> <td>crack in the rock</td> <td></td> <td>x</td> </tr> <tr> <td></td> <td>351</td> <td>395</td> <td>salt and peper rock</td> <td></td> <td>x</td> </tr> <tr> <td></td> <td>395</td> <td>405</td> <td>soft rock</td> <td></td> <td>x</td> </tr> </tbody> </table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	8"	+1	2	Topsoil		X	8"	2	18	Sand, Gravel, Boulders		X	6"	18	110	Sand, Gravel, Boulders		X		110	135	Decomposed Granite (DG) Broken very soft		X		135	207	DG w/ S&P color Med		X		207	210	DG med/ soft 1-2 gpm	X			210	350	salt & peper rock		x		350	351	crack in the rock		x		351	395	salt and peper rock		x		395	405	soft rock		x
Bore Diam.	Depth		Material	Water																																																																			
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	395	405	soft rock		x																																																																		
<p>4. METHOD DRILLED <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Air <input type="checkbox"/> Auger <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable <input type="checkbox"/> Mud <input type="checkbox"/> Other _____ <small>(backhoe, hydraulic, etc.)</small></p>	<p>10. Work started <u>8-mar-93</u> finished <u>17 mar 93</u></p>																																																																						
<p>5. WELL CONSTRUCTION Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Other <u>PVC</u> Thickness _____ Diameter _____ From _____ To _____ <u>250</u> inches <u>6"</u> inches + <u>1</u> feet <u>140</u> feet <u>160#</u> inches <u>4"</u> inches <u>130</u> feet <u>405</u> feet inches inches feet feet Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Perforated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch <input type="checkbox"/> Gun Size of perforation? _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>20</u> Material used in seal: <input type="checkbox"/> Cement grout <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Puddling clay <input type="checkbox"/> _____ Sealing procedure used: <input type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing <input checked="" type="checkbox"/> Overbore to seal depth Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input checked="" type="checkbox"/> Solvent Weld <input type="checkbox"/> Cemented between strata Describe access port: <u>Pitless adapter</u></p>	<p>11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Driller Name <u>Bob Pitts drilling</u> No. <u>235</u> Address <u>4775 baldy rd</u> Date <u>12 mar 93</u> Signed by Drilling Supervisor <u>Bob Pitts</u> and _____ (Operator) _____ <small>(If different than the Drilling Supervisor)</small></p>																																																																						
<p>6. LOCATION OF WELL Sketch map location must agree with written location Subdivision Name _____ Lot No. _____ Block No. <u>AUG-0-9 1993</u> County <u>Bonner</u> Address of Well Site <u>Janish drive</u> <small>(give at least name of road)</small> <u>SW</u> 1/4 <u>NW</u> 1/4 Sec. <u>18</u> T. <u>57</u> N <u>X</u> or S <input type="checkbox"/> R. <u>2</u> E <input type="checkbox"/> or W <u>X</u></p>	<p>USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT</p>																																																																						

Figure 3. McBirney well log showing major substrate lithology in the vicinity of the Baldy Mountain Road Landfill.

(Source: IDWR)

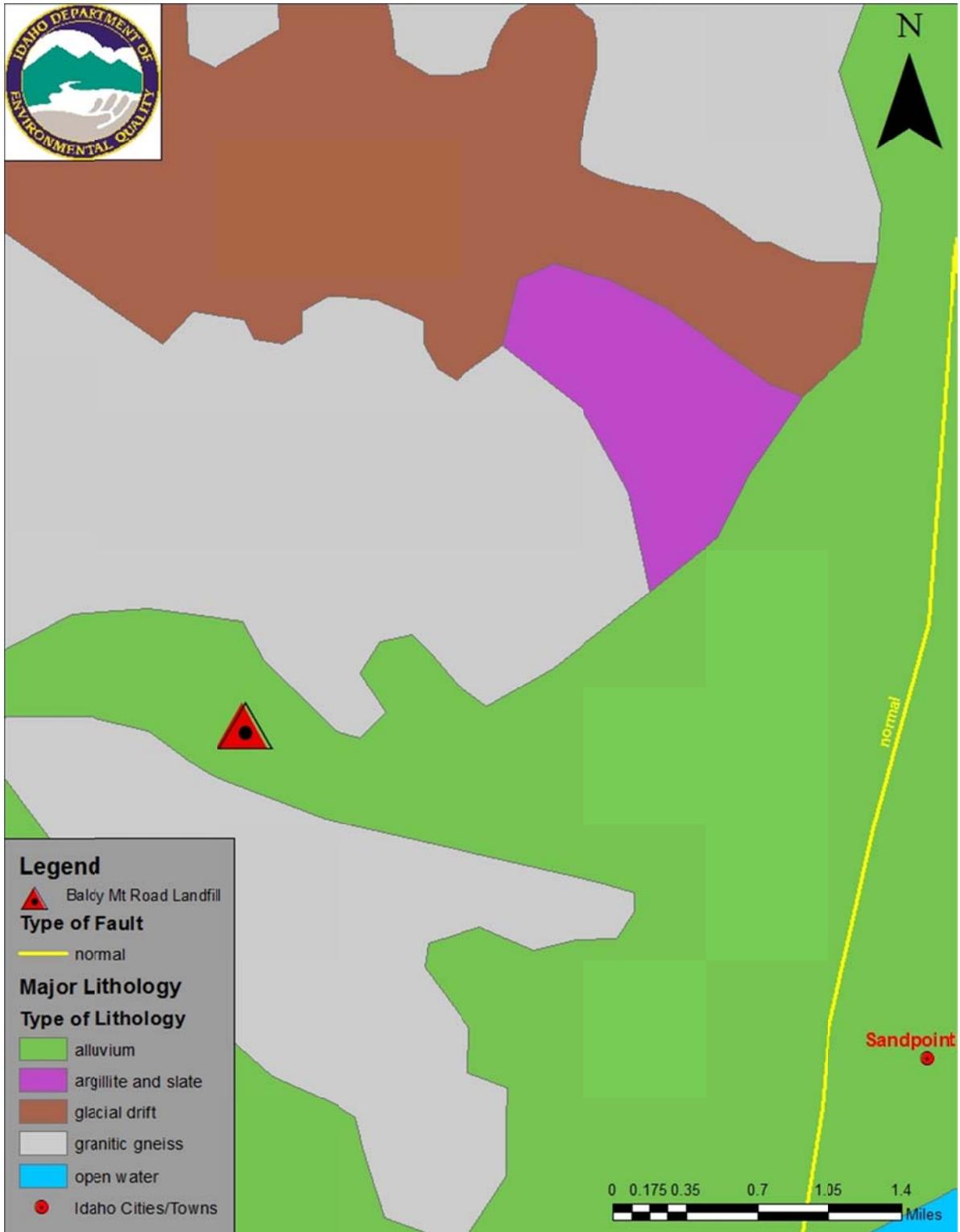


Figure 4. Major lithology in the vicinity of the Baldy Mountain Road Landfill.

(Source: SDE Feature Class, USGS 1995. Idaho GIS ArcSDE 9.2 Geodatabase)

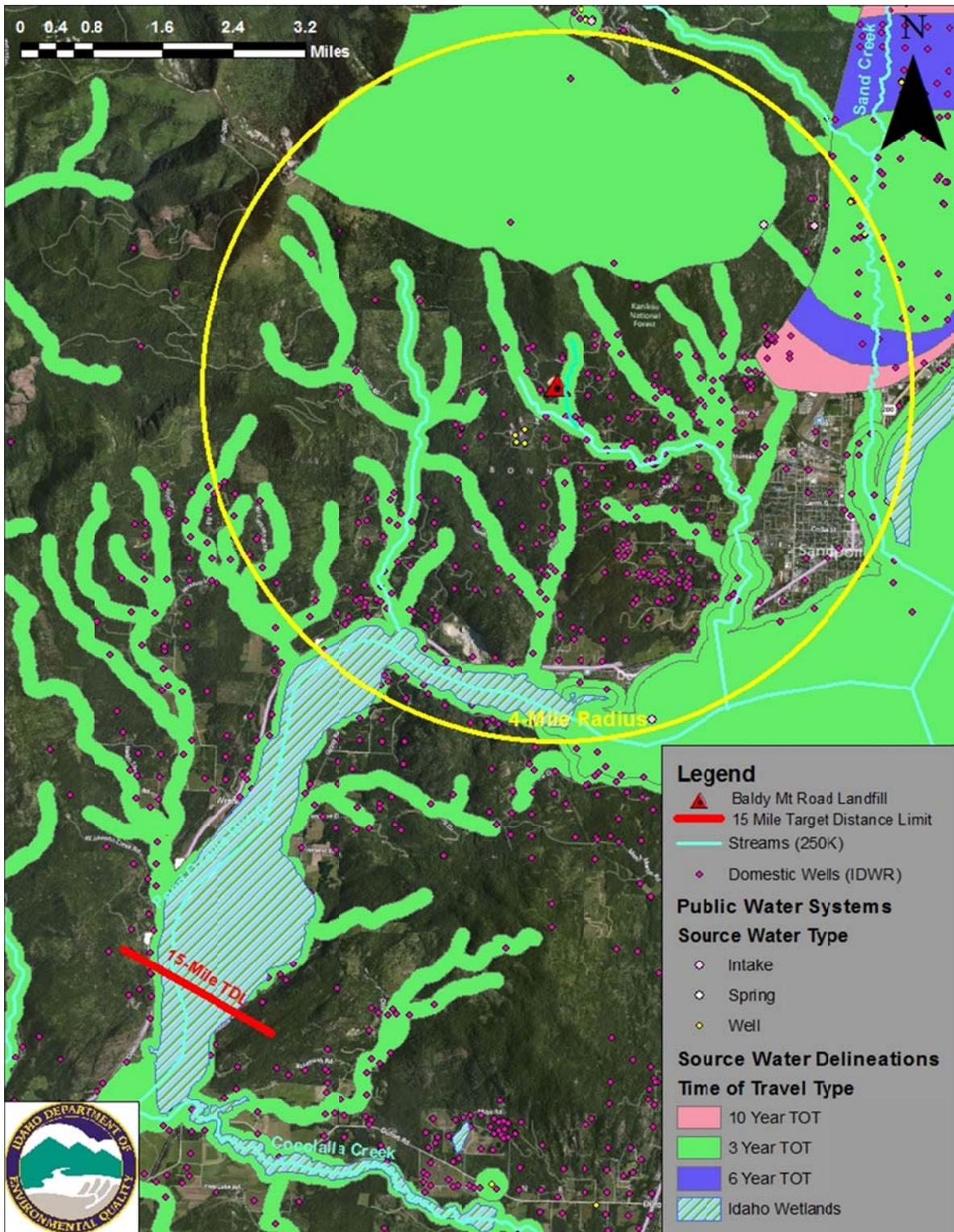


Figure 5. Domestic well and public water system locations.

There are several domestic wells or public water systems within the 4-mile radius, 15-mile TDL. There are two significant wetlands within a 4-mile radius and in the general area; the largest wetland is approximately 1640.672 hectares.

(Source: Microsoft Virtual Earth Aerial with Labels © 2009 Microsoft Corporation)

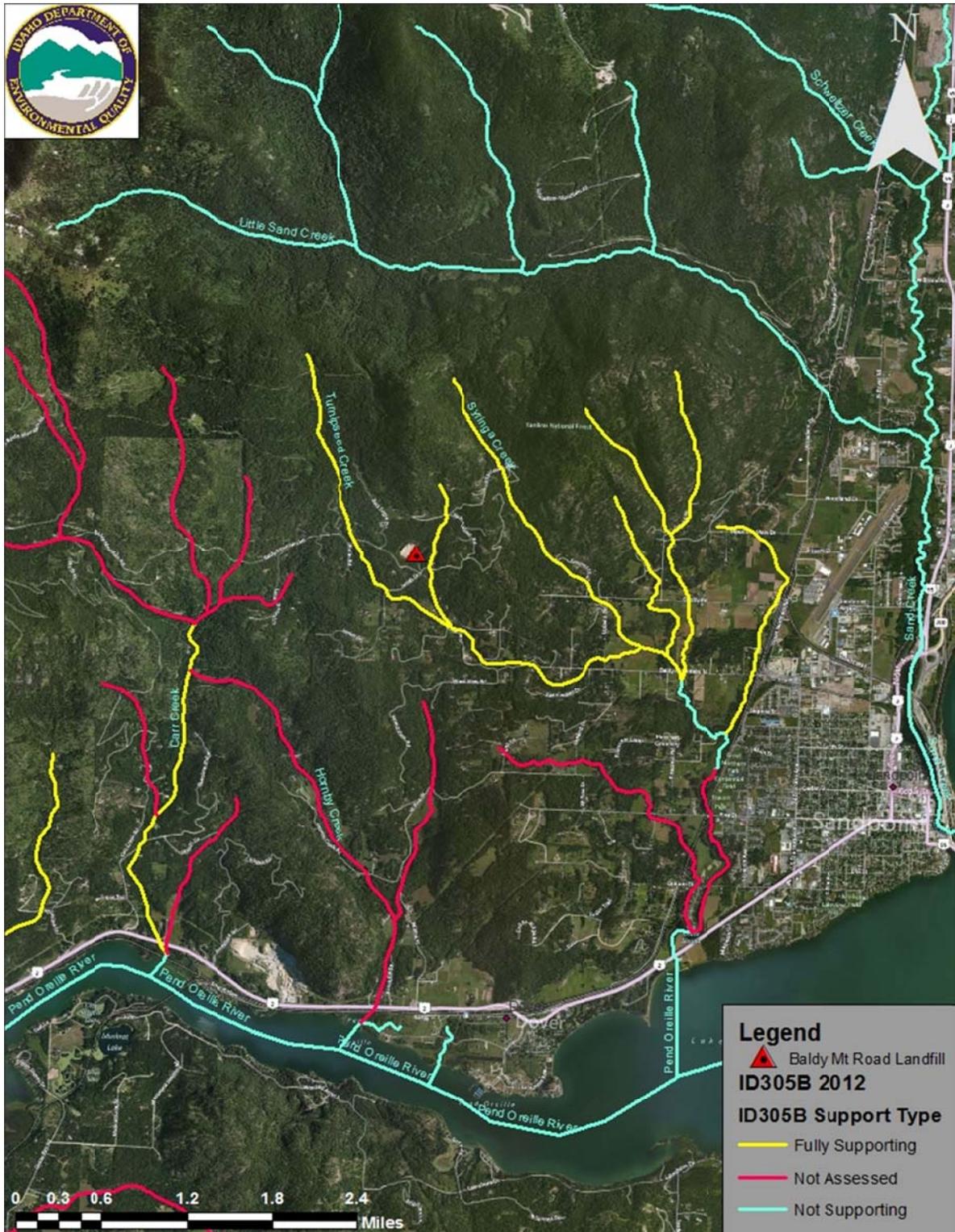


Figure 6. Sensitive streams located in the vicinity of the Baldy Mountain Road Landfill.

Turnipseed Creek is shown as “Fully Supporting” until it reaches Syringa Creek.

(Source: Microsoft Virtual Earth Aerial with Labels © 2009 Microsoft Corporation)

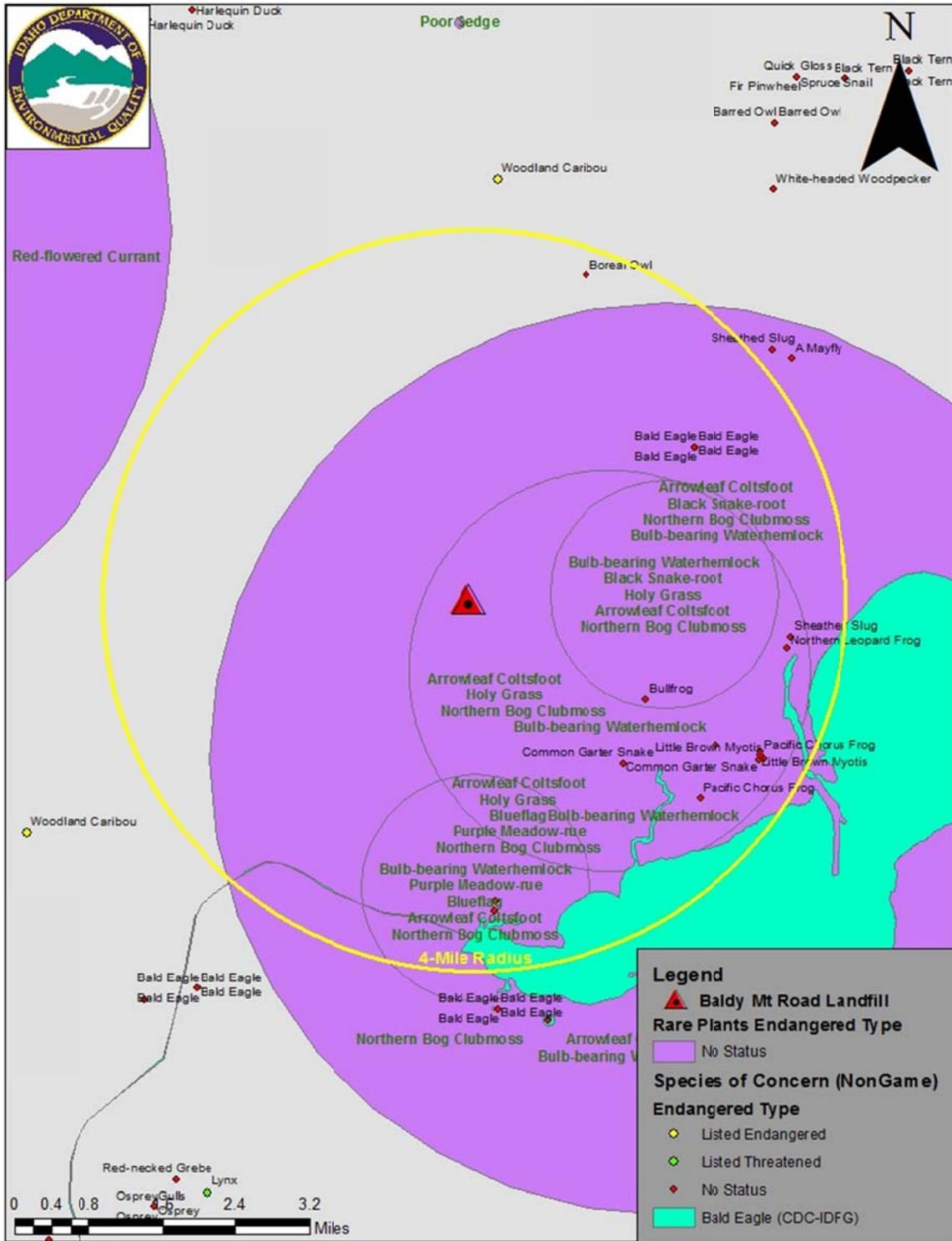


Figure 7. Plant, nongame animal, and fishery sensitive species within 4-mile radius and surrounding area of the Baldy Mountain Road Landfill.

(Source: SDE Feature Dataset, Animal Conservation Database. Idaho GIS ArcSDE 9.2 Geodatabase)

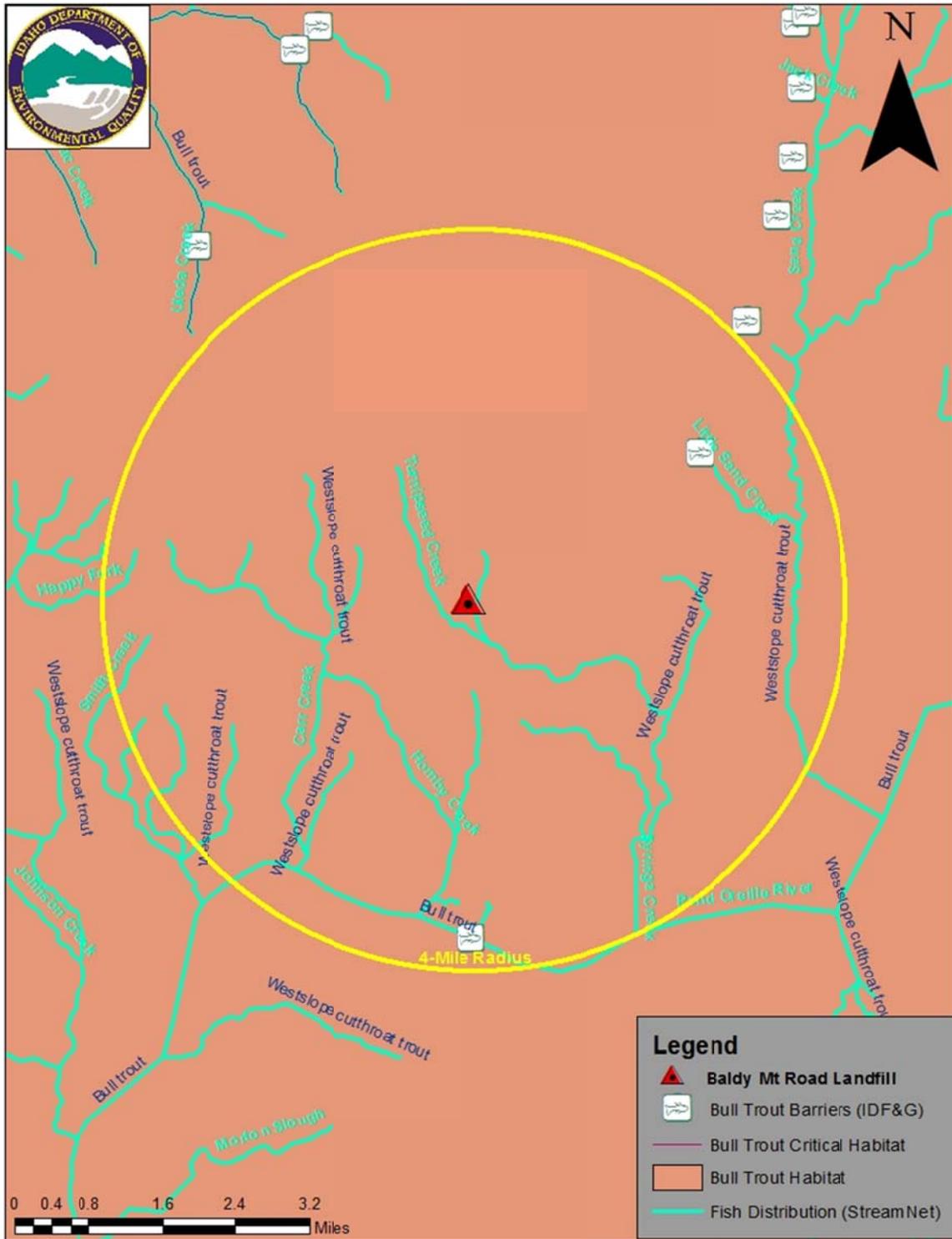


Figure 8. Fishery sensitive species within 4-mile radius and surrounding area of the Baldy Mountain Road Landfill.

(Source: SDE Feature Dataset, Animal Conservation Database. Idaho GIS ArcSDE 9.2 Geodatabase)

Section 5. References

GIS Coverages

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Microsoft Virtual Earth Aerial with Labels (c) 2009 Microsoft Corporation Using: ArcMap GIS. Version 10. Redlands, CA: Environmental Systems Research Institute, Inc., 1992–1999.