From:	Bardy, Louise (ECY)
To:	Musa, Donna K. (ECY)
Subject:	FW: Washington State Department of Ecology: Kitsap Rifle and Revolver Club Bremerton Washington
Date:	Thursday, August 22, 2019 4:14:59 PM
Attachments:	Ch 9 of EPA Region 10 Report.pdf contempt order 5 june 2019.pdf order denying termination of contempt sanction.pdf order amending Feb. 5, 2016 order supplementing judgment on remand.pdf DoEcology Site Hazard Assessment KRRC Ranking2_21 Aug 2013 fm ECY.pdf

FYI – please file with the site file, thanks

From: Kevin and Gail <kevinandgail@wavecable.com>
Sent: Wednesday, August 21, 2019 8:31 PM
To: Bellon, Maia (ECY) <maib461@ECY.WA.GOV>; Warren, Bob (ECY) <rwar461@ECY.WA.GOV>; Ted Benson <tben461@ecy.wa.gov>
Cc: Bardy, Louise (ECY) <LBAR461@ECY.WA.GOV>; ROLS461@ECY.WA.GOV
Subject: Washington State Department of Ecology: Kitsap Rifle and Revolver Club Bremerton Washington

Please pass to The Director, Washington State Department of Ecology:

The Kitsap Rifle and Revolver Club (KRRC) has been closed continuously to the discharge of firearms since 2 December 2016 under two separate permanent and prohibitive injunctions, one each from the Kitsap County and Pierce County Superior Courts. KRRC has demonstrated almost no effort to cure the violations of County Code that are the initiating causes of the closure, and based on all available information has virtually no chance of reopening the ranges to the discharge of firearms in the foreseeable future. Furthermore, the property was determined by the Washington State Department of Ecology to rank as a Model Toxics Control Act (MTCA) Level 2. Additionally, the KRRC unilaterally withdrew from the State Department of Ecology Voluntary Cleanup Program in October 2014, when the annual report of progress became due to the State Department of Ecology.

The Recreation and Conservation Funding Board Resolution 2018-05, as amended, was passed on 13 January 2018. This resolution approved conversion of Project Number 03-1156D as a result of the Kitsap Rifle and Revolver Club's (KRRC) failure to make the funded improvements to their facility available to the public as required by the Project Agreement. The Funding Board deferred conversion pending compliance by the KRRC with Amendment 7 to the original agreement.

Amendment 7 requires detailed bi-monthly progress reports from the KRRC on status of permitting and/or funding needed to resume shooting at the club, and detailed status of efforts and actions to satisfy or lift injunctions preventing shooting of firearms.

The 12 July 2019 report extends KRRC's unbroken string of 9 out of 9 progress reports that provide incomplete, inaccurate, and useless information. Specifically:

· The 12 May 2019 report stated "*KRRC will be in front of Judge Serko on June 7, 2019 to discuss SDAP (Site Development Activity Permit) application.*" The 12 July report did not follow-up to note that that the contempt order enjoining operating a shooting facility remains in place. The purge condition was modified to require KRRC to submit a complete, vice obtain, SDAP to cure the violations of Kitsap County Code. Order Amending December 2, 2016 Contempt Order attached.

· KRRC entered a Motion to Terminate Contempt on 20 June 2019. That Motion was denied on 28 June 2019. KRRC has appealed that denial. Order Denying Termination of Contempt Sanction is attached.

· Superior Court hearing held and Order Amending February 5, 2016 Order Supplementing Judgment on Remand issued also on 28 June 2019. That Order extends a permanent, mandatory and prohibitive injunction enjoining expanded uses of the KRRC property. Order Supplementing Judgment on Remand attached.

· The 12 July 2019 KRRC report states "*Filed third SDAP application. Range operation on hold by Kitsap County."* The SDAP application was started on 19 June 2019 to support the 20 June KRRC Motion to Terminate Contempt. Kitsap County provided an email to KRRC on 25 June identifying items required to complete the application submittal. Kitsap County sent another email to KRRC on 03 July reminding KRRC that the additional items are required and noting that assistance in preparing the permit application is available. KRRC has taken no further action on the SDAP application since beginning the process. Emails between Kitsap County and the KRRC are attached. Range operation is not on hold as a direct consequence of Kitsap County action, but rather wholly and solely due to failure by the KRRC to comply with County Code and Court Orders.

· KRRC remains under a permanent injunction prohibiting operation of a shooting facility on its property until it obtains an operating permit in compliance with Kitsap County Code chapter 10.25. KRRC has evidenced no activity of any kind to even begin to install the projectile physical containment features required by County Code.

The KRRC ranges improved under Washington State Recreation and Conservation Office (RCO) Grant #03-1156 have now been closed to all discharge of firearms for a total of 1,334 days as of 15 July 2019. KRRC is no closer now to obtaining the required permitting and providing the required projectile containment infrastructure, as required by County ordinance, than they were in December 2016.

KRRC has demonstrated no effort to provide the Washington State Recreation and Conservation Office (RCO) with status of permitting and/or funding needed to resume shooting at the club, or detailed status of efforts and actions to satisfy or lift injunctions preventing shooting of firearms. The minimal information that has been submitted is under no stretch of imagination adequate for RCO to evaluate the possibility that KRRC might once again be open for the public's use of the funded improvements.

This inquiry requests that the Washington State Department of Ecology commence the next stage of remedial action per the Site Hazard Assessment dated 7 June 2013.

For further information on this issue please contact the Kitsap County Prosecutor, Mr. Chad Enright, at (360) 337-7174 or by contacting kpelland@co.kitsap.wa.us

9 Summary and Conclusions

The KRRC (an active shooting range) is located approximately 5 miles northwest of Bremerton, Washington, on the Olympic Peninsula. The site consists of a 72-acre tax parcel, of which eight of those acres are used for range activities. Shooting activities have taken place at the site as early as the 1940's, and possibly as early as 1926 (the year in which the KRRC was established).

The IA field sampling event was conducted on June 3, 2011. Surface soil, surface water, and sediment samples were collected as a part of this IA. A total of 27 samples, including four background samples and one QA (rinsate) sample were collected for the IA. All samples were analyzed for SVOCs and TAL metals, while surface water and sediment samples were also analyzed for explosives/propellant residue.

9.1 Sources

Sources of contamination at the site include the impact berms. Impact berms are located at the rifle range, the 50-yard pistol range, and sport pistol ranges 1 through 9. A total of 14 surface soil samples were collected from select impact berms. Sample results from sampled impact berms indicate the presence of both SVOCs and, as expected, TAL metals at significant concentrations with respect to background concentrations. In particular, antimony, arsenic, copper, and lead, and to some extent zinc, were prevalent in impact berms at the site. Although not all impact berms were sampled as part of this IA, it is likely that SVOCs and TAL metals may be present at similar concentrations in the impact berms not sampled. The known volume of impacted soil at the site is as follows: 46.6 cubic yards for the 150-yard rifle range impact berm, 66.6 cubic yards for the 200-yard rifle range impact berm, 664.4 for the 50-yard pistol range impact berm, and 3,283.3 cubic yards for sport ranges 1, 2, and 3 impact berms. Further, the impact berm at sport range 4 is also most likely impacted with a volume of 694.4 cubic yards.

9.2 Targets

Wetlands are present north of the site adjacent to the 50-yard pistol range and sport ranges 1, 2, 3, and 4. Six sediment and two surface water samples were collected from within these wetlands. Results from the surface water samples did not indicate the presence of contamination relative to background concentrations; however, results from the sediment samples indicate the presence of four TAL metals at elevated concentrations with respect to background concentrations. These analytes were also similarly detected in source samples and can be

attributed to the site. In particular, lead was prevalent in the sediment samples. No SVOCs or explosives/propellant residues were detected at elevated concentrations in sediment samples. Based on sample results from this IA, approximately 0.14 mile of wetland frontage has been impacted by the site; though additional wetland frontage likely has been affected.

9.3 Removal Assessment

Four TAL metals (antimony, arsenic, copper, and lead) were detected in impact berms at the site at concentrations which exceeded screening levels. Lead was detected above screening levels at concentrations ranging from 364 mg/kg (RR02SS) to 53,400 mg/kg (PR03SS). Eight PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene) had multiple exceedances of screening levels in the impact berms. Benzo(a)pyrene was detected above screening levels concentrations ranging from 470 ug/kg (RR04SS) to 10,000 ug/kg (PR02SS and PR04SS). Additionally, the PAHs benzo(g,h,i)perylene and phenanthrene, which do not have corresponding screening levels, were also present in the impact berm samples at concentrations exceeding background concentrations.

Lead was detected above SQGs in four of the six wetland sediment samples at concentrations ranging from 780 to 1,260 mg/kg. Cadmium was detected in one of the six wetland sediment samples at a concentration equal to an SQG. No SVOCs or explosives/propellant residues were detected in any of the sediment samples collected. Lastly, no analytes (TAL metals, SVOCs, or explosives/propellant residues) were detected in the two wetland surface water samples, with the exception of iron, which was below the water quality criteria.

9.4 Conclusions

Based on the results of the IA field sampling events, it appears that the KRRC site contains sources of CERCLA hazardous substances which are migrating to adjacent wetlands. Sediment samples collected from wetlands at the site indicate the presence of TAL metals at elevated concentrations with respect to background concentrations and at levels exceeding screening levels. Impact berms are the likely source of TAL metals contamination.

Hon. Susan K. Serko
Hearing Date: June 7, 2019
Hearing Time: ~~9:00~~ a.m.

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
FOR PIERCE COUNTY

KITSAP COUNTY, a political subdivision of the State of Washington,

Plaintiff,

v.

KITSAP RIFLE AND REVOLVER CLUB, a not-for-profit corporation registered in the State of Washington, and JOHN DOES and JANE ROES I-XX, inclusive.

Defendants

and

IN THE MATTER OF NUISANCE AND UNPERMITTED CONDITIONS LOCATED AT One 72-acre parcel identified by Kitsap County Tax Parcel ID No. 362501-4-002-1006 with street address 4900 Seabeck Highway NW, Bremerton Washington

NO. 10-2-12913-3

~~[PROPOSED]~~ ORDER AMENDING DECEMBER 2, 2016 CONTEMPT ORDER

This matter came on regularly for hearing before the undersigned Judge of the above-entitled Court for further proceedings upon remand from Division II of the Court of Appeals. Plaintiff Kitsap County appeared through counsel of record John C. Purves and Laura F. Zippel, Deputy Prosecuting

CHAD M. ENRIGHT
Kitsap County Prosecuting Attorney
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Attorneys. Defendant Kitsap Rifle and Revolver Club ("KRRC") appeared through counsel of record, and Brooks Foster. The parties presented the following agreed Order Amending December 2, 2016 Contempt Order.

This order is intended to amend this Court's Order Granting Kitsap County's Motion for Contempt with Findings of Fact and Conclusions of Law dated December 2, 2016 (hereafter, "Contempt Order"). Except as expressly stated herein, all other aspects of the Contempt Order remain unchanged, pending further order of the Court. To the extent that the language of this order conflicts in any way with any portion of the Contempt Order, the language of this order will control and take effect.

ORDER

The Court hereby orders as follows:

Effective on the date of this order, the text appearing between lines 18 and 21 of page 4 of the Contempt Order is removed and replaced with the following:

"2. Defendant KRRC is enjoined from operating a shooting facility until such time that: (a) KRRC submits a complete site development activity permit ("SDAP") application to Kitsap County for permitting to cure violations of KCC Titles 12 and 19 found to exist on the Property in the original Judgment (hereafter "Purge Condition"); (b) KRRC proves in a future proceeding that it does not have the ability to comply with the permitting order in the Supplemental Judgment, such as by proving it does not have the ability to perform the Purge Condition; or (c) KRRC proves in a future proceeding that it is no longer in contempt, such as by proving that all violations of KCC Titles 12 and 19 found to exist on the Property in the original Judgment have been abated or that KRRC lacks the ability to cure violations of KCC Titles 12 and 19 found to exist on the Property in the original Judgment. For purposes of this order, to submit a "complete" SDAP application means to transmit through the

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County's online portal an SDAP application that contains each and every one of the items listed in KCC § 21.04.160(B). In addition, KRRC is not precluded from arguing in a future proceeding that the injunction closing the Club's entire facility as a coercive sanction must be modified or terminated on the grounds that it no longer is coercive but has become impermissibly punitive."

DONE IN OPEN COURT this 7 day of June, 2019.

HON. SUSAN K. SERKO, JUDGE
PIERCE COUNTY SUPERIOR COURT

Presented by:

LAURA F. ZIPPEL, WSBA No. 47978
JOHN C. PURVES, WSBA No. 35499
Deputy Prosecuting Attorneys
Attorneys for Plaintiff Kitsap County

APPROVED FOR ENTRY:

BRIAN D. CHENOWETH, WSBA No. 25877
BROOKS FOSTER, Appearing *pro hac vice*
Attorneys for Defendant Kitsap Rifle and Revolver Club

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IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
IN AND FOR PIERCE COUNTY

KITSAP COUNTY Plaintiff(s), vs. KITSAP RIFLE AND REVOLVER CLUB Defendant(s)	No. 10-2-12913-3 NOTE FOR MOTION DOCKET

TO THE CLERK OF THE SUPERIOR COURT AND TO OPPOSING PARTY:

Name: Laura Firmin Zippel
Address: 614 Division St PORT ORCHARD, WA 98366-4614
Phone: (360) 337-4870
Attorney for Plaintiff/Petitioner

Name: Neil Robert Wachter
Address: 4110 Kitsap Way Ste 200 BREMERTON, WA 98312-2401
Phone: (360) 479-3000
Attorney for Plaintiff/Petitioner

Please take notice that the undersigned will bring on for hearing a motion for:

Pierce County Superior Court, County-City Building - 930 Tacoma Ave S - Tacoma, WA 98402

Motion

Nature of Hearing: Other ORDER AMENDING SUPPLEMENTAL JUDGMENT

Calendar: SUSAN K. SERKO

CALENDAR DATE: Friday, June 28, 2019 9:00 AM

WORKING COPIES SHALL BE DELIVERED TO THE COURT PURSUANT TO PCLR 7 (a) (7)

PARTY SETTING HEARING SHALL CONFIRM BY NOON TWO COURT DAYS PRIOR TO HEARING

Submitted by:

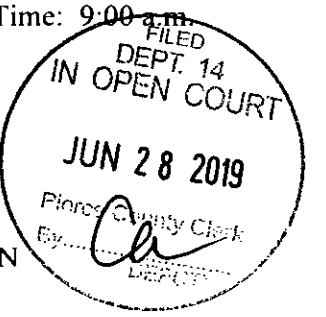
DATED: June 12, 2019.
NAME: Brian David Chenoweth
ADDRESS: 510 SW 5TH AVE. SUITE 400
PORTLAND, OR 97204

Signed: /s/ Brian David Chenoweth
Phone: (503) 221-7958
WSBA#: 25877
For:

Note for Motion Docket 10-2-12913-3
Additional Parties Notified

Name: John Charles Purves Address: 614 Division St MS 35 PORT ORCHARD, WA 98366-4614	Phone: (360) 337-7038 Attorney for Plaintiff/Petitioner
Name: Jennine E Christensen Address: 614 Division St MS-35 PORT ORCHARD, WA 98366-4614	Phone: (360) 337-5505 Attorney for Plaintiff/Petitioner

Hon. Susan K. Serko
Hearing Date: June 28, 2019
Hearing Time: ~~9:00 a.m.~~



IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
FOR PIERCE COUNTY

KITSAP COUNTY, a political subdivision of the State of Washington

Plaintiff,

v.

KITSAP RIFLE AND REVOLVER CLUB, a not-for-profit corporation registered in the State of Washington, and JOHN DOES and JANE ROES I-XX, inclusive

Defendants

and

IN THE MATTER OF NUISANCE AND UNPERMITTED CONDITIONS LOCATED AT One 72-acre parcel identified by Kitsap County Tax Parcel ID No. 362501-4-002-1006 with street address 4900 Seabeck Highway NW, Bremerton Washington

NO. 10-2-12913-3

[~~PROPOSED~~] ORDER ~~TERMINATING CONTEMPT SANCTION~~ DENYING TERMINATION OF CONTEMPT SANCTION

This matter came on regularly for hearing before the undersigned Judge of the above-entitled Court. Plaintiff Kitsap County appeared through counsel of record John C. Purves and Laura F. Zippel, Deputy Prosecuting Attorneys. Defendant Kitsap Rifle and Revolver Club ("KRRC") appeared through counsel of record and Brooks Foster.

ORDER

The Court hereby orders as follows:

~~Defendant Kitsap Rifle and Revolver Club is no longer enjoined from operating a~~ shooting facility by the *Order Granting Kitsap County's Motion for Contempt with Findings of Fact and Conclusions of Law* (dated December 2, 2016) and the *Order Amending December 2, 2016 Contempt Order* (dated June 7, 2019). The injunction in those orders that ~~prohibits KRRC from operating a shooting facility as a coercive remedy for contempt is hereby terminated as of the date of this order.~~ The Motion of the KRRC is denied. The contempt sanction remains in effect.

DONE IN OPEN COURT this 28 day of June, 2019.

HON. SUSAN K. SERKO, JUDGE
PIERCE COUNTY SUPERIOR COURT

FILED
DEPT. 14
IN OPEN COURT
JUN 28 2019
Pierce County Clerk
By DEPUTY

Presented by:

BRIAN D. CHENOWETH, WSBA No. 25877
BROOKS FOSTER, Oregon State Bar No. 042873
(appearing *pro hac vice*)
Attorneys for Defendant Kitsap Rifle and Revolver Club

APPROVED FOR ENTRY:

JOHN C. PURVES, WSBA No. 35499
LAURA F. ZIPPEL, WSBA No. 47978
Deputy Prosecuting Attorneys
Kitsap County Prosecutor's Office
Attorneys for Plaintiff Kitsap County

Hon. Susan K. Serko
Hearing Date: June 28, 2019
Hearing Time: 9:00 a.m.

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
FOR PIERCE COUNTY

KITSAP COUNTY, a political subdivision of the State of Washington,

Plaintiff,

v.

KITSAP RIFLE AND REVOLVER CLUB, a not-for-profit corporation registered in the State of Washington, and JOHN DOES and JANE ROES I-XX, inclusive,

Defendants

and

IN THE MATTER OF NUISANCE AND UNPERMITTED CONDITIONS LOCATED AT One 72-acre parcel identified by Kitsap County Tax Parcel ID No. 362501-4-002-1006 with street address 4900 Seabeck Highway NW, Bremerton Washington

NO. 10-2-12913-3

~~[PROPOSED~~] ORDER AMENDING FEBRUARY 5, 2016 ORDER SUPPLEMENTING JUDGMENT ON REMAND

THIS MATTER having come on regularly for hearing before the undersigned Judge of the above-entitled Court for further proceedings upon remand from Division II of the Court of Appeals.

CHAD M. ENRIGHT
Kitsap County Prosecuting Attorney
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The parties appeared through their attorneys of record Laura F. Zippel and John C. Purves for the Plaintiff and Brian Chenoweth and Brooks Foster for the Defendant and having submitted the following agreed Revised Order Supplementing Judgment on Remand in accordance with the Court of Appeals' unpublished opinion in *Kitsap County v. Kitsap Rifle* (COA Cause No. 48781-1-II) entered on November 21, 2017 ("November 21, 2017 Opinion").

This order is intended to amend this Court's *Order Supplementing Judgment on Remand* ("Supplemental Judgment") (filed February 5, 2016). Except as expressly stated herein, all other aspects of the Supplemental Judgment remain unchanged, pending further order of the Court. To the extent that the language of this order conflicts in any way with any portion of the Supplemental Judgment, the language of this order will control and take effect. Being fully advised, the Court hereby supplements the Supplemental Judgment as follows.

ORDERS

The following orders will replace and supplement Order No. 1 on page 3 of the Supplemental Judgment and Order No. 6 on pages 3 and 4 of the Supplemental Judgment:

DECLARATORY JUDGMENT

1. The following activities and uses of the Property each constitute unlawful expansions of and changes to the nonconforming use of the Property as a shooting range by operation of former KCC § 17.455.060, KCC Chapter 17.460, KCC § 17.100.030, and Washington common law regarding nonconforming uses:

(a) military training uses;

(b) the provision of firearms training courses sanctioned by the military and provided by commercial, for-profit businesses;

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(c) discharging cannons or causing exploding targets to explode;

(d) the discharge of fully automatic firearms or the discharge of semiautomatic rifles larger than nominal .30 caliber;

(e) more than two scheduled practical shooting competitions per month and more than ten scheduled practical shooting practices per month.

6. **LAND USE INJUNCTION (EFFECTIVE IMMEDIATELY)**

a. A permanent, mandatory and prohibitive injunction is hereby issued enjoining each of the following expanded uses of the Property until such time that a conditional use permit is applied for and issued to specifically authorize the intended changed or expanded use(s):

1. military training uses;

2. the provision of firearms training courses sanctioned by the military and provided by commercial, for-profit businesses;

3. discharging cannons or causing exploding targets to explode;

4. the discharge of fully automatic firearms or the discharge of semiautomatic rifles greater than nominal .30 caliber; and

5. more than two scheduled practical shooting competitions per month and more than ten scheduled practical shooting practices per month.

DONE IN OPEN COURT this 28 day of June, 2019.

HON. SUSAN K. SERKO, JUDGE
PIERCE COUNTY SUPERIOR COURT

FILED
DEPT. 14
IN OPEN COURT
JUN 28 2019
Pierce County Clerk
By DEPUTY

Presented By:

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LAURA F. ZIPPEL, WSBA No. 47978
JOHN C. PURVES, WSBA No. 35499
Deputy Prosecuting Attorneys
Attorneys for ~~Plaintiff~~ Kitsap County
Agreed to Form:

BRIAN D. CHENOWETH, WSBA No. 25877
BROOKS FOSTER, Appearing *pro hac vice*
Attorneys for Defendant Kitsap Rifle and Revolver Club

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SITE HAZARD ASSESSMENT
WORKSHEET 1
Summary Score Sheet

SITE INFORMATION:
Kitsap Rifle & Revolver Club
4900 Seabeck Hwy NW
Bremerton, WA 98312

Section/Township/Range: 36/25N/1W
Latitude: 47.60853 º
Longitude: -122. 74683º
Ecology Facility Site ID No.: 18708
Parcel # 362501-4-002-1006

Site originally scored/ranked for the February 2013 Hazardous Sites List update
June 7, 2013

SITE DESCRIPTION:

The Kitsap Rifle & Revolver Club (KRRC) site is a 70 acre commercial site located 7 miles northwest of Bremerton, WA. The site is currently owned and operated by KRRC. The current use of the property is as a shooting range and gun club. The site itself is on the north side of Seabeck Hwy NW. Figure 1 attached is a vicinity map. The property is relatively flat near the road with a hill to the southeast and wetlands to the north and west. Maximum slopes on the property are in excess of 20%. There are at least 5 structures on the property. Roughly 80% of the property is a wetlands or forest. The 70 acre parcel owned by KRRC is situated next to and is a part of the watershed of Chico Creek, a salmon stream. The 2003 Kitsap Salmonid Refugia Report states:

> "The headwaters of Chico Creek, within Lost (WRIA 15.0234) and Wildcat (WRIA 15.0238) tributaries are important spawning and rearing habitat for coho and steelhead, as well as resident cutthroat."

The property has been in use as a gun range since 1926. The land was owned by the Washington State Department of Natural Resources (DNR) until 2008, at which time the property was acquired by Kitsap County, as part of a land swap with DNR. Shortly thereafter, the County deeded the property over to KRRC. Onsite is a 50 yard pistol range with a covered shooting line, a 200 yard rifle range with a covered shooting line, and about eight small sport pistol ranges. There are two trailers used as classrooms and for meetings, and a range store and office building. The site is served by a drinking water well. Ground water in the area appears to be shallow. See the attached map, from the Washington State Department of Ecology, showing soil depth to groundwater (Figure 2).

Previous Studies/History of contamination

The site was added to the Confirmed and Suspected Contaminated Sites list in August of 2010 after an Initial Investigation (ERTS #613947). The investigation showed that the site was likely contaminated with lead from the years of shooting with limited formal lead recovery program. Permission to sample onsite was denied during the Initial Investigation. The Environmental Protection Agency (EPA) later conducted sampling (Kitsap Rifle & Revolver Club Integrated Site Assessment, November 2011) at

the site confirming lead, antimony, arsenic, copper, cadmium, vanadium, and carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) above applicable levels in the Model Toxics Control Act for soils or sediments.

The following reports on KRRC were reviewed for this assessment:

- Kitsap Rifle & Revolver Club Integrated Site Assessment, US EPA Region 10, November 2011
- Kitsap Rifle & Revolver Club Initial Investigation Field Report, Kitsap Public Health District, August 18, 2010

See Table 1 for all samples that exceed MTCA levels in soil. Sediment exceedances were found for lead. See Table 2 for sediment exceedances.

Table1. Soil sampling exceedances of MTCA (mg/kg)

Sample Station	**Metals**				**SVOCs**
	Antimony	**Arsenic**	**Copper**	**Lead**	**Benzo(a)pyrene**
BK01SS	0.75	2.9	14.6	4.7	<0.2
RR01SS	29.3	1.9	40.3	1750	<0.18
RR02SS	5.1	1.5	19.8	364	0.068
RR03SS	283	6.4	522	22500	1.9
RR04SS	112	2.5	96.6	5420	0.47
PR01SS	249	15.4	4430	17200	4.3
PR02SS	1080	36.2	1440	37000	10
PR03SS	1100	39.8	1430	53400	7.7
PR04SS	463	46	2340	46400	10
SR01SS	502	35.5	681	21700	3.4
SR02SS	459	34.1	3050	18500	0.86
SR03SS	364	43.3	421	20600	3.8
SR04SS	364	39.5	634	15600	2.3
SR05SS	416	27.4	303	18700	0.87
SR06SS	322	31.6	423	12900	2.4
RF01SS	0.48	1.3	14	13.5	0.011
MTCA Standard	**32**	**20**	**3200**	**250**	**0.1**

Figure 3 attached shows the sampling locations from the EPA Site Assessment.

Table 2. Soil/sediment sampling exceedances of MTCA (mg/kg)

Sample Station	Lead
BK01SD	4.3
BK02SD	16.6
WL01SD	162
WL02SD	1030
WL03SD	1170
WL04SD	780
WL05SD	1260
WL06SD	34.3
MTCA Standard	**250**

The results presented in Table 1 and 2 do not include all of the results in the record, but only those results where a sample showed a result exceeding MTCA.

Site Inspections

Multiple site inspections have been conducted by Health District staff prior to this SHA. Health District staff conducted the Initial Investigation at this site in 2010. As a part of the Initial Investigation at least three site visits were made to the site. A site visit was conducted on the KRRC property on July 19, 2012. Health District Staff met with members of KRRC and toured the facility.

Three site visits have been conducted to the areas around KRRC checking to see if any of the bullets found in the Newberry Hill Heritage Park to the north could have come from firing at KRRC. Investigation identified both bullets and casings found on the park property leading to the conclusion that shooting associated with artifacts took place on park property and therefore could not be attributed to KRRC.

These site inspections confirmed the physical aspects of the properties and gave staff some familiarity with the site and surrounding area.

Potential Sources of Contamination

The likely sources of contamination at KRRC are the metal in the bullets and shot from the firing of pistols, shotguns and rifles. The majority of bullets from pistols, shotguns and rifles are lead. Bullets and shot may also contain copper, antimony, nickel, zinc, cadmium, and arsenic. The impact areas of the ranges at KRRC are (mostly) sand berms. The rifle range impact area at 200 yards is an exposed soil face approximately 40 to 50 feet high. This soil face is cemented gray till. KRRC has been in operation for approximately 86 years. The level of use of the range has varied over the years. There

are indications that the use has been heavy over the last 5 years or so. In addition, the ranges at KRRC have had a limited formal lead recovery program. Members have mined limited amounts of lead from the impact berms. In the last two years or so KRRC has started documenting the amounts of lead removed from the range. None the less, it is likely that a great deal of lead remains in the berms and impact areas at the various ranges. In addition, fragments and ricochets from the berms on the main pistol line have likely landed in the wetlands behind the impact berm. The cPAH source may be from clay targets on the rifle range, which doubles as the shotgun range.

Surface Water

Wetland areas are known to exist on the KRRC property. Wetlands are also located on the property to the north, and southwest of KRRC. Surface water generally flows to the west towards Hood Canal, and bends back to the east as headwaters to Chico Creek. Chico Creek is a salmon bearing stream. See the attached map for further details (Figure 4).

Drinking Water Wells

Drinking water wells within two miles of the site include Group A (2), Group B (17), and private well systems which serve a total of 10,000 or more persons. Local drinking water wells are down gradient of the site with the closest public well being approximately 400 feet from the site. There is at least one private drinking water well at the site in use. Sampling of the well shows no exceedances of MTCA levels. See the attached well log and sample results (Figure 5).

Air Emissions

Particulate emission is a possible migratory pathway for the metals from the soils. Movement of particulates to air from the soils at the KRRC is low due to the Kitsap County climate. However, the contaminated soil is at the ground surface which maximizes the exposure. Although the adjacent land is primarily undeveloped, there is one housing development within the half mile radius of KRRC. The estimated number of persons in the half mile radius is 73 based on an average of 2.3 people per household.

SHA Sampling

Sampling was conducted off of the KRRC property, on July 2, 2012, in a water channel leading from KRRC towards Chico Creek. The water samples were analyzed for dissolved metals. All results came back below MTCA levels for surface water. Three samples were taken: one above the site for background and two below. See the Sampling and Analysis Plan and analytical results for these sample results.

SPECIAL CONSIDERATIONS (include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) over-riding a decision of no further action for the site):

1) US Navy Camp Wesley Harris (FS ID 2603), which is on the Confirmed and Suspected Contaminated Sites list and is ranked a 2, is immediately adjacent to the east. Camp Wesley Harris is

a US Navy and US Marine Corps shooting range. Cross contamination from this range to KRRC is possible.

2) Directly to the north of the KRRC site is the Kitsap County Newberry Hill Heritage Park. This park was recently established (2008) and prior to the park the site was owned by Washington State Department of Natural Resources (DNR). This DNR land was open to the public and shooting on the property was allowed. Evidence of persons shooting in the park consisting of both bullets and shells was observed on the ground at Kitsap County Newberry Hill Heritage Park. Cross contamination from this site to KRRC is possible.

3) Although the well log for the well placed on the KRRC does not indicate discovery of groundwater before a depth of 349 feet, information from the US Department of Agriculture, National Resource Conservation Service, indicates that groundwater lies at a minimum depth of 0 – 25 cm below ground surface. In addition to this is the presence of standing water in wetlands on the site. These two facts are used in the determination, for this SHA, of a depth to groundwater of 0 to 25 feet.

ROUTE SCORES:

Surface Water/Human Health:	**NS**	Surface Water/Environmental:	**NS**
Air/Human Health:	**16.5**	Air/Environmental:	**NS**
Groundwater/Human Health:	**65.7**		

OVERALL RANK: 2

Model Toxics Control Act (MTCA) Level 2 of 5, with 1 being equivalent to a Federal CERCLA SuperFund site.

WORKSHEET 2
Route Documentation

1. **SURFACE WATER ROUTE –**
   a. List those substances to be considered for scoring: Source: 1, 2, 3, 4

      Not scored

   b. Explain basis for choice of substance(s) to be used in scoring.

   c. List those management units to be considered for scoring: Source: 1, 2, 3, 4

   d. Explain basis for choice of unit to be used in scoring:

2. **AIR ROUTE –**
   a. List those substances to be considered for scoring: Source: 1, 2, 3, 4

      Arsenic, antimony, copper, and lead

   b. Explain basis for choice of substance(s) to be used in scoring:

      These substances were detected in soil, and sediment at the site in concentrations exceeding their respective MTCA cleanup levels.

   c. List those management units to be considered for scoring: Source: 1, 2, 3, 4

      Air and groundwater

   d. Explain basis for choice of unit to be used in scoring:

      The contaminating substances were detected in soil samples. Arsenic, antimony, copper, and lead were found in concentrations exceeding MTCA cleanup levels

3. **GROUNDWATER ROUTE-**
   a. List those substances to be considered for scoring: Source: 1, 2, 3, 4

      Arsenic, antimony, copper, and lead

   b. Explain basis for choice of substance(s) to be used in scoring:

      These substances were detected in soil at the site in concentrations exceeding their respective MTCA cleanup levels.

   c. List those management units to be considered for scoring: Source: 1, 2, 3,4

      Air and groundwater

   d. Explain basis for choice of unit to be used in scoring:

The contaminating substances were detected in soil samples. Arsenic, antimony, copper, and lead were found in concentrations exceeding MTCA cleanup levels.

WORKSHEET 5
AIR ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.2 Human Toxicity

	Substance	Air Standard (µg/m³)	Value	Acute Toxicity (mg/ m³)	Value	Chronic Toxicity (mg/kg/day)	Value	Carcinogenicity		Value
								WOE	PF*	
1	Arsenic	0.00023	10	-	ND	-	ND	1.75	A	9
2	Antimony	1.7	9	-	ND	-	ND	-	-	ND
3	Copper	3.3	9	-	ND	-	ND	-	-	ND
4	Lead	0.5	10	-	ND	-	ND	-	-	ND

** Potency Factor*

Source: 1, 6

Highest Value: 10
(Max = 10)

Plus 2 Bonus Points? 2

Final Toxicity Value: 12
(Max = 12)

1.3 Mobility (Use numbers to refer to above listed substances)

	1.3.1 Gaseous Mobility		1.3.2 Particulate Mobility		
	Vapor Pressure(s) (mmHg)	Value	Soil Type	Erodibility	Climatic Factor
1	-	-	Coarse Sand	73	1-10
2	-	-	Coarse Sand	73	1-10
3	-	-	Coarse Sand	73	1-10
4	-	-	Coarse Sand	73	1-10

Source: 2, 3

Value: 0 (Max = 4)

Source: 1, 11

Value: 3

1.4 Highest Human Health Toxicity/ Mobility Matrix Value (from Table A-7)

Final Matrix Value: 6
(Max = 24)

1.5 Environmental Toxicity/Mobility

	Substance	Non-human Mammalian Inhalation Toxicity (mg/m³)	Acute Value	Mobility (mmHg)	Value	Matrix Value
1	This route not scored per					

2	WARM Manual page A-7 Section 1.5					
3	Substances have no non human					
4	mammalian inhalation toxicity					

Highest Environmental Toxicity/Mobility Matrix Value (from Table A-7) = **Final Matrix Value: 0**
(Max = 24)

1.6 Substance Quantity (areal extent)	
Explain Basis: Contaminated soil > 1.55 and < 7.8 acres	Source: 1,2,3 **Value: 7** (Max = 10)

2.0 MIGRATION POTENTIAL

		Source	Value
2.1	**Containment:** Surface contamination	1	**10** (Max = 10)

3.0 TARGETS

		Source	Value
3.1	**Nearest Population:** <1000 feet to nearest dwelling	1,4	**10** (Max = 10)
3.2	**Distance to [and name(s) of] nearest sensitive environment(s) [fisheries excluded]: 0** feet to nearest freshwater wetland	1,2,3,8	**7** (Max = 7)
3.3	**Population served within 0.5 miles:** Population = 32 residences x 2.3 = 74; √74 = 8.6	10	**8** (Max = 75)

4.0 RELEASE

Explain Basis for scoring a release to air: No confirmed release	Source: 1,2,3 **Value: 0** (Max = 5)

WORKSHEET 6
GROUNDWATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.2 Human Toxicity

	Substance	Drinking Water Standard (µg/L)	Value	Acute Toxicity (mg/ kg-bw)	Value	Chronic Toxicity (mg/kg/day)	Value	Carcinogenicity		Value
								WOE	PF*	
1	Arsenic	10	8	763	5	0.001	5	A	1.75	7
2	Antimony	3	8	7	10	0.0004	5	-	-	ND
3	Copper	1300	2	-	ND	0.037	1	-	-	ND
4	Lead	5	8	-	ND	0.001	3	-	-	ND

* *Potency Factor*

Source: 1,2,3,6,7

Highest Value: 10
(Max = 10)

Plus 2 Bonus Points? 2

Final Toxicity Value: 12
(Max = 12)

1.2 Mobility (use numbers to refer to above listed substances)

Cations/Anions	OR	Solubility (mg/L)
1= 3		1= (All as per Table GW-5, WARM Scoring
2= 3		2= Manual, page GW-4)
3= 2		3=
4= 2		4=

Source: 1,6,7

Value: 3
(Max = 3)

1.3 Substance Quantity:

Explain basis: Unknown, use default = 1 : Unknown quantity of contaminated soil >5000 cubic yards

Source: 1,2,3,4,6,7

Value: 5
(Max=10)

2.0 MIGRATION POTENTIAL

		Source	Value
2.1	**Containment (explain basis):** Spill/discharge	1,2,3	**10** (Max = 10)
2.2	**Net precipitation:** 29.7”-5.6”= 24.1”	8	**3** (Max = 5)
2.3	**Subsurface hydraulic conductivity:** Sandy loam = Hydraulic Conductivity of $>10^{-5}$ to 10^{-3} cm/sec	1,2,5	**3** (Max = 4)
2.4	**Vertical depth to groundwater:** <175 cm (i.e., 0 – 25 feet)	1,2,5	**8** (Max = 8)

3.0 TARGETS

		Source	Value
3.1	**Groundwater usage:** Public supply, alternate sources available	1,4,8	**4** (Max = 10)
3.2	**Distance to nearest drinking water well:** on-site	1,2,3,4	**5** (Max = 5)
3.3	**Population served within 2 miles:** approx >10,000	1,4,5	**100** (Max = 100)
3.4	**Area irrigated by (groundwater) wells within 2 miles:** none	1,2,3,4,6	**0** (Max = 50)

4.0 RELEASE

	Source	Value
Explain basis for scoring a release to groundwater: Unconfirmed release	1,3,4,5,6	**0** (Max = 5)

SOURCES USED IN SCORING

1. Kitsap Rifle & Revolver Club Integrated Site Assessment, US EPA Region 10, November 2011
2. Kitsap Rifle & Revolver Club Initial Investigation Field Report, Kitsap Public Health District, August 18, 2010
3. Site Hazard Assessment Pre Sampling and Sampling Site Visits – Heritage Park/Chico Creek Headwaters- Richard Bazzell and Grant Holdcroft, Kitsap Public Health District, May 24, 2012; June 4, 2012; June 6, 2012; and July 2, 2012.
4. ArcView GIS, Kitsap Public Health District, 2012
5. Internet Well Log Viewer, Washington State Department of Ecology, 2012
6. Toxicology Database for Use in Washington Ranking Method Scoring, Washington State Department of Ecology, January 1992
7. WARM Scoring Manual, Washington State Department of Ecology, April 1992.
8. Washington Climate – Net Rainfall Table
9. Drinking Water Systems Database, Kitsap Public Health District
10. Sentry Database for public water supplies, Washington State Department of Health
11. Soil Survey of Kitsap County, Washington, US Department of Agriculture, 1980

Figure 1.

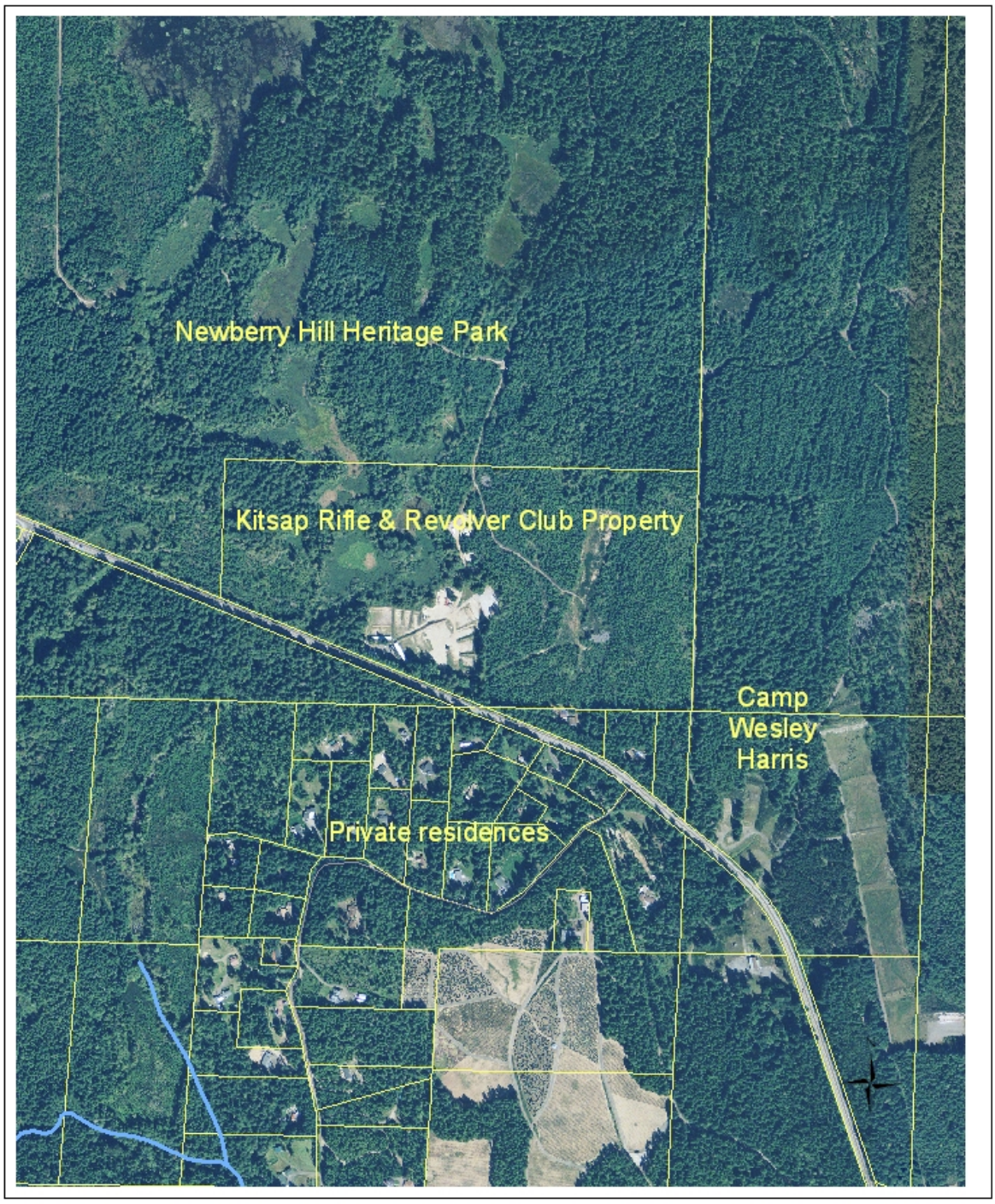
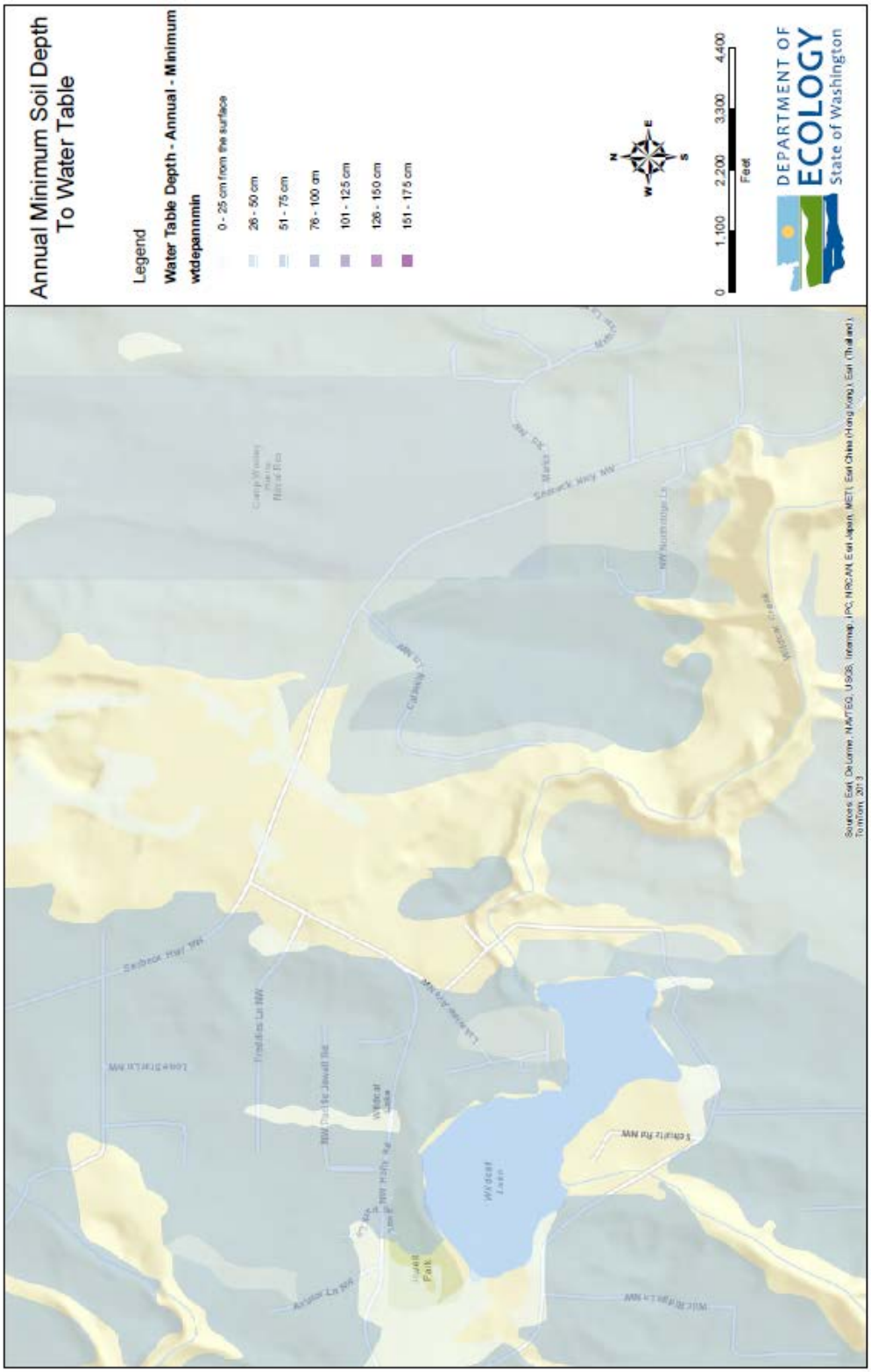

Newberry Hill Heritage Park
Kitsap Rifle & Revolver Club Property
Camp Wesley Harris
Private residences
N
GAH 7/30/2012
Kitsap Rifle & Revolver Club
Vicinity Map
0 180 360 720 1,080 1,440
Feet
KITSAP PUBLIC HEALTH DISTRICT

Figure 2.


Annual Minimum Soil Depth
To Water Table
Legend
Water Table Depth - Annual - Minimum
wtdepannmin
0 - 25 cm from the surface
26 - 50 cm
51 - 75 cm
76 - 100 cm
101 - 125 cm
126 - 150 cm
151 - 175 cm
0
1,100
2,200
3,300
4,400
Feet
DEPARTMENT OF
ECOLOGY
State of Washington

.

Figure 3.

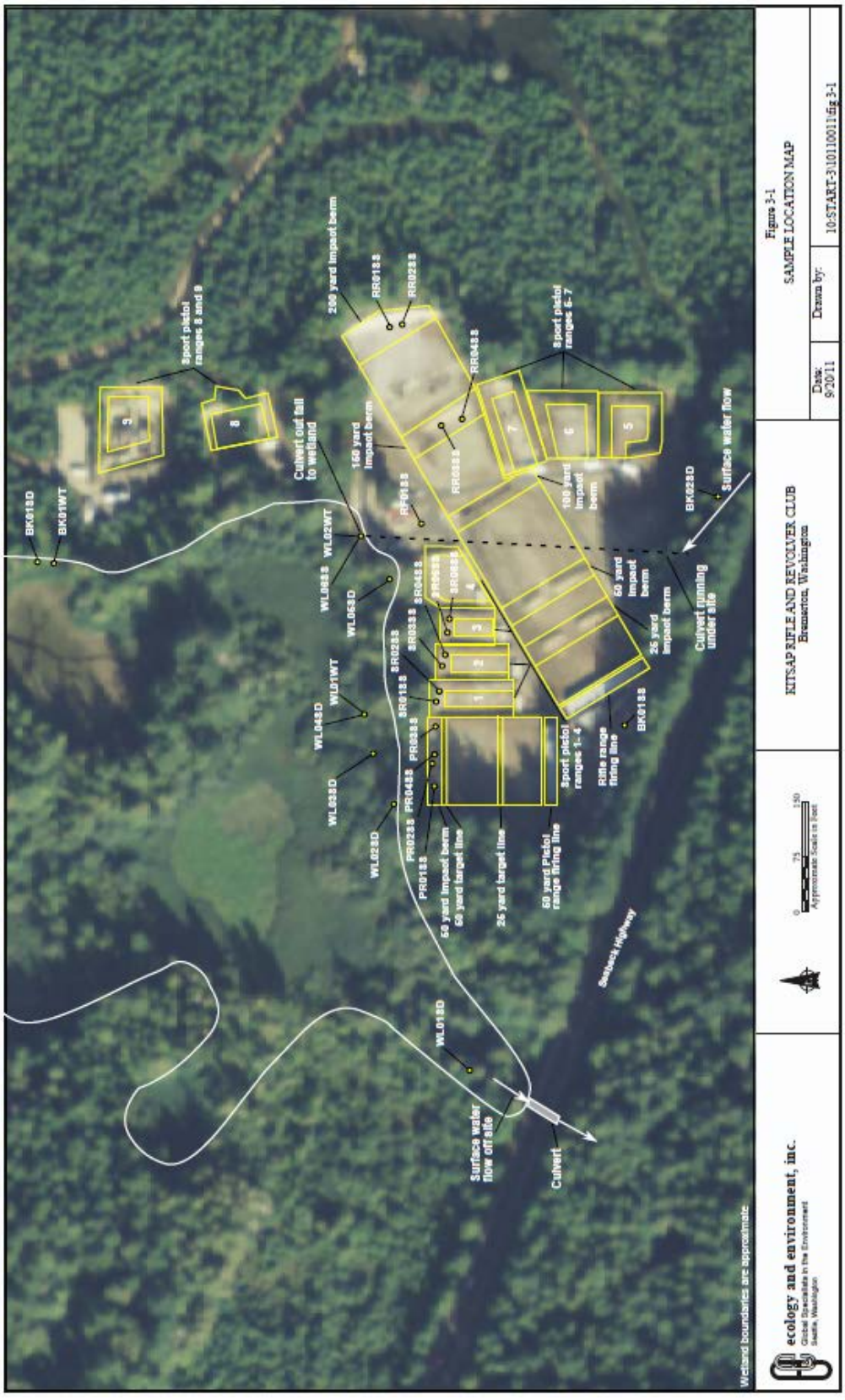

ecology and environment, inc.
KITSAP RIFLE AND REVOLVER CLUB
Bremerton, Washington
Figure 3-1
SAMPLE LOCATION MAP
Date: 9/20/11
Drawn by:
10:START-3\101100111\fig 3-1
Approximate Scale in Feet
Wetland boundaries are approximate.
Sport pistol ranges 8 and 9
Culvert out fall to wetland
200 yard impact berm
150 yard impact berm
100 yard impact berm
Sport pistol ranges 6-7
60 yard impact berm
25 yard impact berm
Culvert running under site
Surface water flow
Sport pistol ranges 1-4
Rifle range firing line
60 yard Pistol range firing line
25 yard target line
60 yard impact berm
60 yard target line
Seabeck Highway
Surface water flow off site
Culvert
BK018D
BK01WT
WL02WT
WL008S
WL005D
WL04SD
WL01WT
WL03SD
WL02SD
WL018D
RR018S
RR023S
RR043S
SR018S
SR023S
SR043S
SR008S
PR018S
PR023S
PR043S
PR008S
BK018S
BK023D

Figure 4.

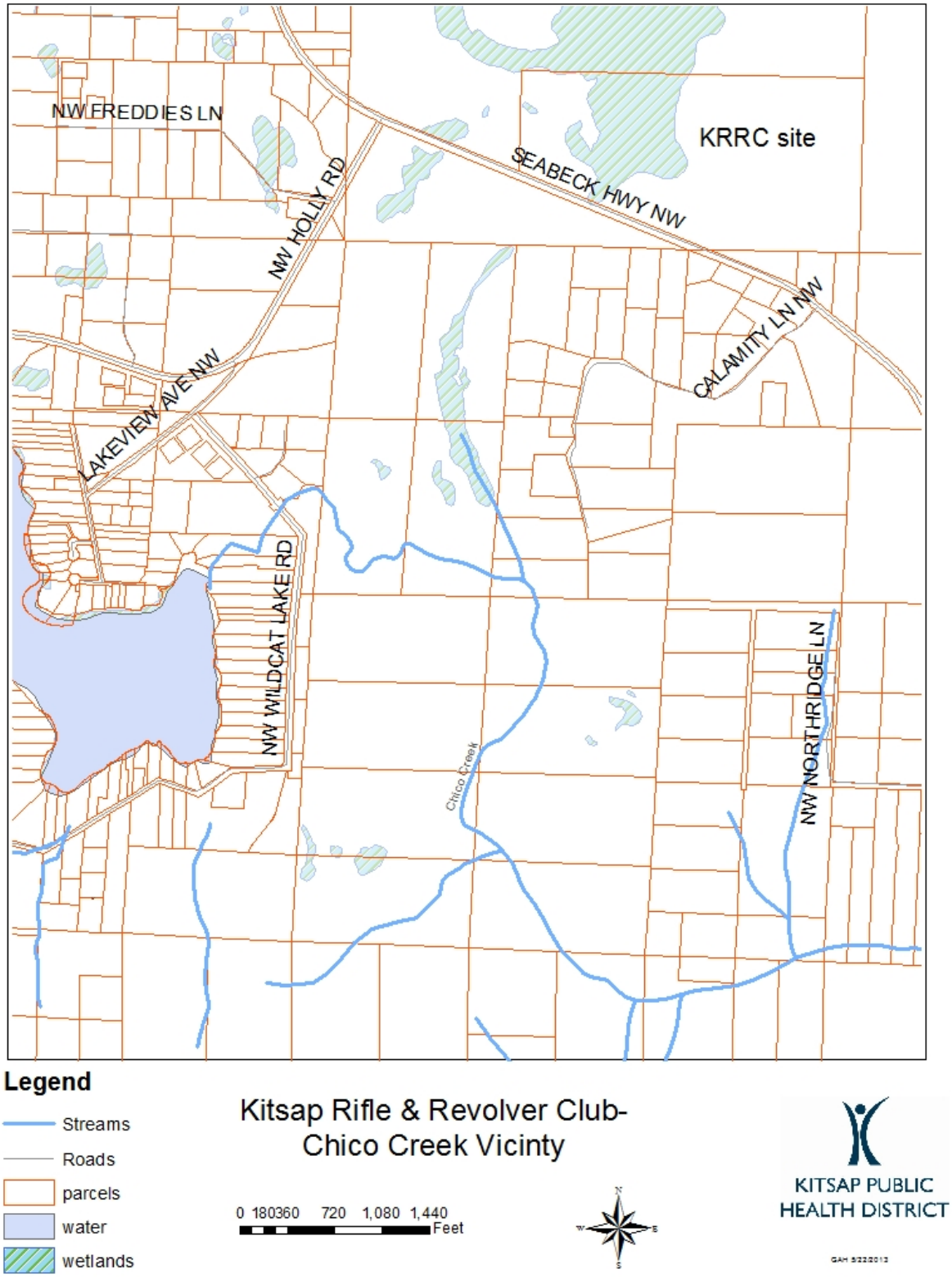
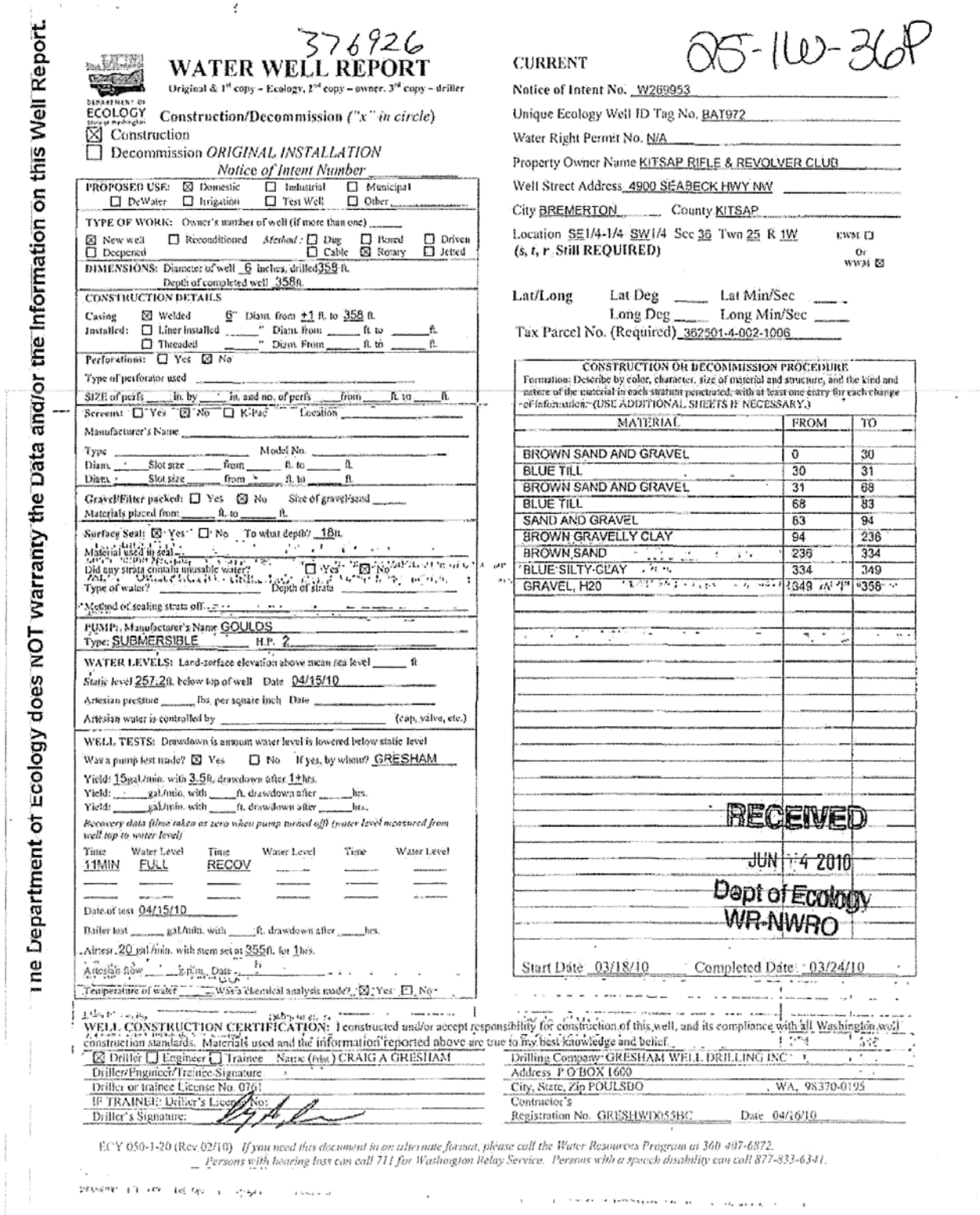

NW FREDDIES LN
KRRC site
SEABECK HWY NW
NW HOLLY RD
CALAMITY LN NW
LAKEVIEW AVE NW
NW WILDCAT LAKE RD
Chico Creek
NW NORTHRIDGE LN
Legend
Streams
Roads
parcels
water
wetlands
Kitsap Rifle & Revolver Club-
Chico Creek Vicinty
0 180360 720 1,080 1,440
Feet
KITSAP PUBLIC
HEALTH DISTRICT
GAH 5/22/2013

Figure 5.



376926

WATER WELL REPORT

Original & 1st copy – Ecology, 2nd copy – owner, 3rd copy – driller

DEPARTMENT OF ECOLOGY State of Washington

CURRENT 25-1W-36P

Construction/Decommission *("x" in circle)*

☒ Construction

☐ Decommission *ORIGINAL INSTALLATION*

Notice of Intent Number

PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other

TYPE OF WORK: Owner's number of well (if more than one)

☒ New well ☐ Reconditioned *Method:* ☐ Dug ☐ Bored ☐ Driven ☐ Deepened ☐ Cable ☒ Rotary ☐ Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 358 ft. Depth of completed well 358 ft.

CONSTRUCTION DETAILS

Casing Installed: ☒ Welded 6" Diam. from +1 ft. to 358 ft. ☐ Liner installed ___" Diam. from ___ ft. to ___ ft. ☐ Threaded ___" Diam. From ___ ft. to ___ ft.

Perforations: ☐ Yes ☒ No

Type of perforator used

SIZE of perfs ___ in. by ___ in. and no. of perfs ___ from ___ ft. to ___ ft.

Screens: ☐ Yes ☒ No ☐ K-Pac Location

Manufacturer's Name

Type Model No.

Diam. ___ Slot size ___ from ___ ft. to ___ ft.

Diam. ___ Slot size ___ from ___ ft. to ___ ft.

Gravel/Filter packed: ☐ Yes ☒ No Size of gravel/sand

Materials placed from ___ ft. to ___ ft.

Surface Seal: ☒ Yes ☐ No To what depth? 18 ft.

Material used in seal

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? Depth of strata

Method of sealing strata off

PUMP: Manufacturer's Name GOULDS

Type: SUBMERSIBLE H.P. 2

WATER LEVELS: Land-surface elevation above mean sea level ___ ft

Static level 257.2 ft. below top of well Date 04/15/10

Artesian pressure ___ lbs. per square inch Date

Artesian water is controlled by (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? GRESHAM

Yield: 15 gal./min. with 3.5 ft. drawdown after 1+ hrs.

Yield: ___ gal./min. with ___ ft. drawdown after ___ hrs.

Yield: ___ gal./min. with ___ ft. drawdown after ___ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
11MIN	FULL	RECOV			

Date of test 04/15/10

Bailer test ___ gal./min. with ___ ft. drawdown after ___ hrs.

Airest 20 gal./min. with stem set at 355 ft. for 1 hrs.

Artesian flow ___ g.p.m. Date

Temperature of water ___ Was a chemical analysis made? ☒ Yes ☐ No

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
BROWN SAND AND GRAVEL	0	30
BLUE TILL	30	31
BROWN SAND AND GRAVEL	31	68
BLUE TILL	68	83
SAND AND GRAVEL	83	94
BROWN GRAVELLY CLAY	94	236
BROWN SAND	236	334
BLUE SILTY CLAY	334	349
GRAVEL, H20	349	358

RECEIVED
JUN 14 2010
Dept of Ecology
WR-NWRO

Start Date 03/18/10 Completed Date 03/24/10

Lat/Long Lat Deg ___ Lat Min/Sec ___ Long Deg ___ Long Min/Sec ___

Tax Parcel No. (Required) 362501-4-002-1006

Location SE1/4-1/4 SW1/4 Sec 36 Twn 25 R 1W (s, t, r Still REQUIRED) EWM ☐ Or WWM ☒

Notice of Intent No. W269953

Unique Ecology Well ID Tag No. BAT972

Water Right Permit No. N/A

Property Owner Name KITSAP RIFLE & REVOLVER CLUB

Well Street Address 4900 SEABECK HWY NW

City BREMERTON County KITSAP

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Engineer ☐ Trainee Name (type) CRAIG A GRESHAM

Driller/Engineer/Trainee Signature

Driller or trainee License No. 0761

IF TRAINEE: Driller's License No:

Driller's Signature:

Drilling Company: GRESHAM WELL DRILLING INC

Address P O BOX 1600

City, State, Zip POULSBO , WA, 98370-0195

Contractor's Registration No. GRESHWD055BC Date 04/16/10

ECY 050-1-20 (Rev 02/10) *If you need this document in an alternate format, please call the Water Resources Program at 360 407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

The Department of Ecology does NOT warranty the Data and/or the Information on this Well Report.

Well Analytical Data

Twiss ANALYTICAL, INC.
26276 Twelve Tree Lane, Suite C
Poulsbo, WA 98370
(360) 779-5141

COLIFORM BACTERIA ANALYSIS

Date Sample Collected (Month Day Year)	Time Sample Collected	County
4 15 10	2 : 00 ☐ AM ☐ PM	Kitsap

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☐ Other

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID#
System Name: Kitsap Rifle & Revolver Clubs
Contact Person: Gresham Well Drilling Inc
Day Phone: (360) 779-9323 Cell Phone: ( )
Eve. Phone: ( ) FAX: (360) 779-6077

Send results to: (Print full name, address and zip code)
GRESHAM WELL DRILLING INC.
P.O. BOX 1600
POULSBO, WA 98370-0195

SAMPLE INFORMATION

Sample collected by (name): Gresham Well Drilling Inc
Specific location where sample collected (address or sample site (and type of faucet): Well Head @ 7900 Seabeck Hwy
Special instructions or comments: BAT-972

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number:
Unsatisfactory routine collect date: / /
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources
S
Public Systems must provide Source Number from (WFI)

4. ☐ **Sample Collected for Information Only**
Construction_____ Repairs_____ Private Residence_____ Other_____

LAB USE ONLY **DRINKING WATER RESULTS** LAB USE ONLY

☐ **Unsatisfactory**
Total Coliform Present **and**
☐ E.coli present ☐ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☑ **Satisfactory**

☐ **Replacement Sample Required**
Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper Container
☐
Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐

Bacterial Density Results: Plate Count_____/ml. E.coli_____/100ml.
Total Coliform_____/100ml. Fecal Coliform_____/100ml.

Method Code:
MICR- 2730 1140 1340 2520
Date and Time Received: 4/15/10 4:10
Date Analyzed: 4/15/10
Date Reported: 4/16/10
010 57601
Sample Number (DOH number plus five digits)
Lab Use Only: 104576 01

DOH Form #331-319 (revised 8/05)

TWISS ANALYTICAL LABORATORIES, INC.

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

IOC - LCR

IOC - LCR by Various EPA Approved Methods

Source / Point of Entry - Report of Analysis

Date Collected:	7/19/2010	Group:	
System ID No:	Private	System Name:	Kitsap Rifle and Revolver Club
Lab - Sample #:	01033002	County:	Kitsap
Sample Location:	4900 Seabeck Hwy	DOH Source No:	
Sample Purpose:	I	Date Received:	7/19/2010
Sample Composition:		Date Analyzed:	7/23/2010
Send Report To:	Gresham Well Drilling PO Box 1600 Poulsbo, WA 98370-0195	Date Reported:	8/4/2010
		Sample Type:	Pre-treatment/Raw
		Collected By:	GWD
		Phone Number:	
		Bill To:	Gresham Well Drilling PO Box 1600 Poulsbo, WA 98370-0195

DOH#	Analyte	Results	Units	SRL	Trigger	MCL*	MCL Exceeded	Method (Analyst Init.)
9	Lead	<(0.001)	mg/L	0.001				EPA 200.9 (KW)
23	Copper	<(0.02)	mg/L	0.02				EPA 200.7 (KW)

SRL: (State Reporting Level), indicates the minimum reporting level required by the Washington Department of Health (DOH).
Trigger Level: DOH Drinking Water response level. Systems with compounds detected at concentrations in excess of this level are required to take additional samples. Contact your regional DOH office for further information.
MCL: (Maximum Contaminant Level), If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.
NA: (Not Analyzed), in the results column indicates this compound was not included in the current analysis.
ND: (Not Detected), in the results column indicates this compound was analyzed and not detected at a level greater than or equal to the SRL.
<(0.00x): indicates the compound was not detected in the sample at or above the concentration indicated.
* The 0.010 mg/L MCL for Arsenic is for Group A NTNC systems. All other systems should check with their county Health District to determine what level is applicable.

TWISS ANALYTICAL LABORATORIES, INC.

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

IOC - SHORT

IOC - SHORT by Various EPA Approved Methods

Source / Point of Entry - Report of Analysis

Date Collected:	7/19/2010	Group:	
System ID No:	Private	System Name:	Kitsap Rifle and Revolver Club
Lab - Sample #:	01033002	County:	Kitsap
Sample Location:	4900 Seabeck Hwy	DOH Source No:	
Sample Purpose:	I	Date Received:	7/19/2010
Sample Composition:		Date Analyzed:	7/20/2010
Send Report To:	Gresham Well Drilling PO Box 1600 Poulsbo, WA 98370-0195	Date Reported:	8/4/2010
		Sample Type:	Pre-treatment/Raw
		Collected By:	GWD
		Phone Number:	
		Bill To:	Gresham Well Drilling PO Box 1600 Poulsbo, WA 98370-0195

DOH#	Analyte	Results	Units	SRL	Trigger	MCL*	MCL Exceeded	Method (Analyst Init.)
20	Nitrate-N	<(0.5)	mg/L	2	5	10		EPA 300.0 (KW)
21	Chloride	1.31	mg/L	20	250	250		EPA 300.0 (KW)
16	Conductivity	107	µS/cm	70	700	700		SM 2510 B (JS)
8	Iron	<(0.10)	mg/L	0.1	0.3	0.3		EPA 200.7 (KW)
10	Manganese	<(0.01)	mg/L	0.01	0.05	0.05		EPA 200.7 (KW)

SRL: (State Reporting Level), indicates the minimum reporting level required by the Washington Department of Health (DOH).
Trigger Level: DOH Drinking Water response level. Systems with compounds detected at concentrations in excess of this level are required to take additional samples. Contact your regional DOH office for further information.
MCL: (Maximum Contaminant Level), If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.
NA: (Not Analyzed), in the results column indicates this compound was not included in the current analysis.
ND: (Not Detected), in the results column indicates this compound was analyzed and not detected at a level greater than or equal to the SRL
< (0.00x): indicates the compound was not detected in the sample at or above the concentration indicated.
* The 0.010 mg/L MCL for Arsenic is for Group A NTNC systems. All other systems should check with their county Health District to determine what level is applicable.

TWISS ANALYTICAL LABORATORIES, INC.

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IOC - LCR

IOC - LCR by EPA Methods 200.9, 200.7

Distribution System - Report of Analysis

IOC - LCR			
System ID No:	Private	Group:	
DOH Source No:		System Name:	Kitsap Rifle & Revolver Club
Sample Purpose:	O	County:	Kitsap
		Date Received:	5/18/2010
		Date Analyzed:	5/21/2010
Send Report To:	Gresham Well Drilling PO Box 1600 Poulsbo, WA 98370-0195	Date Reported:	5/24/2010
		Bill To:	Gresham Well Drilling PO Box 1600 Poulsbo, WA 98370-0195

DOH #	Lead, mg/L	Copper, mg/L
SRL, mg/L	0.001	0.02
Trigger Level, mg/L	--	--
MCL, mg/L	*	*
Analytical Method (Analyst Init.)	EPA 200.9 KW	EPA 200.7 KW

Sample #	Date Collected	Sample Location	Lead, mg/L	Copper, mg/L
01039301	5/17/2010	Well House tap 4900 Seabeck Hwy	0.016	<(0.02)

* Lead has not been assigned an MCl, it has an 'Action Level' of 0.015 mg/L designated by EPA. Copper has not been assigned an MCl, it has an 'Action Level' of 1.3 mg/L designated by EPA.

SRL: (State Reporting Level), indicates the minimum reporting level required by the Washington Department of Health (DOH).

Trigger Level: DOH Drinking Water response level. Systems with compounds detected at concentrations in excess of this level are required to take additional samples. Contact your regional DOH office for further information.

MCL: (Maximum Contaminant Level), If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.

NA: (Not Analyzed), in the results column indicates this compound was not included in the current analysis.

ND: (Not Detected), in the results column indicates this compound was analyzed and not detected at a level greater than or equal to the SRL

< (0.00x): indicates the compound was not detected in the sample at or above the concentration indicated.

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