APPENDIX F FIELD NOTEBOOKS





ALL-WEATHER
ENVIRONMENTAL
No. 550-4F

Geologist Geo-Statistician David R. Hose, RG

g Well

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ALL-WEATHER ENVIRONMENTAL FIELD BOOK

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Project

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

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Location Woodinville WA Date 9/02/13 Project/Client UCR Phase 2 Sed, Study Twell Amorrical 0800 - 1000 April Clasued 21 Marina Ain Stones by drowing Plitons of Water Through EACH STONE. Clubrud Storks placed NEW, depr RESERIABLE BAGGIE Militager of Was Prior To deporture 12,201 M 0900 Krs Disported From 9/03/13 Woodinville for Spokans 1505 Has Amire Spokent officer

Project/Client UCR PMS 2 Study

Tock American Location TRAIL BOAT DOCK Date 9/5/13 5 Project/Client UCA Phase 2 Sed Study 0800 - 1200 Crow prives AT UPS 0700 Ups Assunblidat Dock To Prop Eon The Day. Planto sample office and MAKES FINA Proporations for Trip 10 2 locations at Gendle B observers of The Dock Was informed by EPA Reprosuntive 12-1:00 Luch - EPA Understood theme would be Mikage @ Departure from 2 observers on gaugh Bout in Casado. This is not URS' Spokano Office 12537@13:30 An understanding, Contested Took Anivo of US Bondon in RT95 AT 16:30 Hrs - Digit Bondon And URS-PM To WORK out This 185UE: RESOLVER TO 6/10~2 17:15 Hrs Observers on Safety BOAT park I observer on Sampling Bost. Brive Trail 19:45 Has When a suppor is collected sample Boat will nove to Shope with sproty Bost 50 grony one can observe surple Collection - EPS indicated That it wants Dand R. Han 9/4/13 Donald Non 9/5/13

Location $T_{r-s,1}$ Date $\frac{9/5/13}{1}$ Project / Client ICR Phose 2 Sedimon Study Project / Client UCR Phase 2 Sudiment Study Took primier Tirel American for The EPA-split sumplies. This is 18:00 Departed Trail with Gary Porther To Thousport Today's A deviation from the OAPP, but Tuck instructed UPS To secomedate Souples to Northport for Storage in Refor Truck, This REQUEST 9:00- 9:30 Conducted Solety 20:00 Roturned to Trail. Mot MEETing with Entire Crow with Gravity Crow but fly. Notwith TR Sigalski Gravity Rue of ind operations check of sampling organizations to be graph about of grab. Briefly. Scarced today's Field Notics. MOOHNS and of Day 1030 Mrs. Suppling Your deports 17:30 MET BOST AT DOCK TO Pick up Todays samples. All Reports indicate a successful Sompling Day. Word R. Aon 9/5/13 David R. Hu 9/5/13

Location Trail Bort Laruh Date 9/6/13 Project/Client UCR Phase 2 Std Study

Tiall American Project/Client UCR Phase 2 5 and Study Tock American 07:30 Motat Boot Lavuch with 5:00 PM Prive Castlegin Topas Hidd Brist configuration and Chark in to Hotel Call With URS-PM and URS Somple Tron Miloso 5 12922 - conducted Sofety Bristing 7:45 CALL UPS-PM To -0800 Has Books desported The dock to Sample Locations G-3 and G-4 - 11:15 Anive Northport to Process Supplies for Ship nort to BLS 1-coolen 2:30 PM MET GARY FAUTHER IN
ROSSISTED TO PIEK UP Today'S
SAMPLES FOR THOUSPORT TO
NORTH PORT Dard R. How 9/6/13

Project/Client UCR Physic 2 Sed 5/Vdy

TECK. AMERICAN Project / Client UCR Plase 7 Stal Study

Teck American LANCH BONTS. MARINA D 18-35 Disport Northport 19:35 Anv Biode At Costlogske 0830 Contacted Morning Soluty
Briefing Granity is deliled deporting breads of a problem with some requipment on the Souph Boot 0915 Ds Boats Depart the Dock SAMPLING PAPERWORK FROM FIRST TWO days 17:15 Ans Sampling Tran Robinson With Samples And Papenwork 17:30 Disport for Northport Ward R. Nove 9/1/13 Dard R. How

Location Lower Arrow Lake Date 9/8/13 Location CASTINGAN Date 9/9/13 13 Project / Client UCD Phose 2 Sudiment Study Project / Client UCR Phose 2 Sediment Study Tirek Amonican Took AMMICAN 0800 this Crew ASSEMBLES AT 0700 Has EPA Roparsuntatives and consisty surroundal Seolly's Marina for Sampling. Depart Costleger for the U.S. Winthon is ideal Broken Clouds 260 F NO wind 08:30 Mas G. Poston and JR Sigalski Conducted Safety Bristing and Book Deport the dock depended for US. To ship The Somples to CAS. Rumaning Chow Will Roman in Costingian Justill Tursday 10-Sopt-13. AT 0820 HRS 1730 Hrs Souphing Com Returns with Samples & Locations LAL-1 Process and popenwork Till LAL-2 and LAL-B WENT 1230 Ans . Shot down for Some Moved breaks dopth of the IsKu (>600 Feet) oxcoods The surpling agripount's obilities. The EPA representative and The CCT cutural RUSSURER observen both agained with The Robertion. David Des Vore Dand Ph. Mar 9/8/13

Location Castlegar Date 9/10/13 Location 2- /21/2015 Date 9/11/13 15 Project/Client UCR Phase & Sadinant Study
Tock American Project / Client UCR Phose 2 Sed Study TECK American Hotel and Headed for U.S. Today spent of Motor Organizing repipment and Proping for 0900 Kirl in Northport WA Picky Reton Truck And Head to Spokens Sampling that will Russmo with 2 soupling cows on 9/12/13. MilLAGE 13218 Met with NPS Personal IT Font Spokens to Discuss The project 1130HES Arive Spokens and what the should expect from The Coun is for as daily presents. Milongo 13333 1:30-6:00 Mesting AT Tock National Park Service U.S. Department of the Interior Laurie Denison Administrative Technician 6:00-7:30 Mober to 2-Rivers South District Office know prod how dinner Lake Roosevelt National Recreation Area 44150 District Office Lane North Then Chiek in to Motel Davenport, Washington 99122 509-633-0000 ext 00 509 754-7887 509-633-3834 fax Laurie_Denison@nps.gov Dul R. Har 9/11/13

Location Two Kivens Date 9/11/13 Location 2 Rivers Boot Lauren Date 9/12/13 17 Project/Client VCR Signiful Study - Phrs 2 Project / Client UCR Phist 2 Stral Study TECK AMERICAN Took Amonican 3:00 PM Placed Energency Order 0700 Uns Not Boots At 2 Rivers for 160 950 nl Botthes for Bost Lunch Risole Samples 0730 Kins conduct Sofety Baid Bottles will be sout to White Willow Motel via Conion Services 0800 Uns Books Disport Dock To prive Thursday 9/12/13 1430 Knis McCsig of Tock collect URS is NOT to fill AN EXTRA SOMPLE TOR FOR THE EPA Split samples of the Chumistry only Locations We proto s bucket and sout it to AS where it will be Ru-Klomagnized and in EPS Reprosentative will collect The Supple of Phat line! Doid R. Son 9/12/13 Ward D. How 9/11/13

Project / Client UCR Phase 2 Study Location J-Pivens, Minua Date 9/13/13 Project / Client UCA-Phase 2 SED Study Tock American TOCK PAGNICAN Splits for CCT May be given to
John Edwards 0700 Ans MIST ST DOCK NPS Penzous prosent at Dock NPS Songles Keith Holiday Dow MACDONALD on their desigNELS 0730 Ans Solity Brufing 1600 Has The field sompling from Discussed The phermont of EXCESS Sudinger back into The Returned with 18 Sgal buckets of DW from Sampling of four Rivon on CCT & STI Managed Charistry only locations from lands with Don Mac Donald of NPS. All in Agricult That within cet and SI Mousgood aross. After placing A Call To EXCESS Sodinant will be potenuse Teck to discuss this volume we To The System. Mso discussed como to understand that sudiment with Kzith Holiday and John Edwards. Tribal Representatives IDW obtained from CCT+STI Anoss should be potential to 0/50 PRESENT. 0800 Kns Boots Depart The The system. This will be done Dock. 12 The fetine. The 18 buckets will be sent to ALS for Stoneys David R. How 9/13/13 Ward How 9/12/13

Location TWO FIVERS MANJUS Date 9/14/13 21 Location 2 Rivers Boot Lunch Date 9/13/13 Project/Client UCF Phase 2 Sed Study
Took American Project/Client UCA Phose 2 Sed. Study Trek Amnicon 0100 Kns Met at Dack. Planto The NPS personnel refused Two Locations GB-CD and Ret-6 To Sid Sign The URS H+S form, Their dress did not conform To the specifications of The UPS H+S Plan The REMAINING BOAT CREWS protound LAST BOAT BOCK STAU dock Two UPS Stoff (Mills Kelly and Motorie Young) notated out. 1815 Has. Completed & Bio 7 Bioassay Locations Today. The Romaining UNS Staff processed proposed Supplies Also resived word That our SII cetteral observer had to leave For Thorsport to ALS via arthigonotice Truck on 9/15/13 as planted. in The morning breause he pocined wond That his wigh WAS Shot and Killed This Morning. Boot Rolling to Dock at 3:15Pr Ho stoyed with the Tran will his supervisor gove him the OK To KANE. Oreach NEWS! Processed Samples for shipping Want 12, Have 9/14/13 David R. How 9/13/13

Location Two Rivers Date 9/15/13 Location TWO RIVERS MAINTA Date 9/14/13 23 Project / Client UCR Phase 2 Sediment Study Project/Client VCR Phase 2 Sed Skydy Tock AMENICAN TECK AMMICAN 0700 Ans Mot with Tobox Clarkfill 0700 MET AT Ovell. All Prosent And Parl Mc Cullougher To Except The fock survices ROVIEW COC TRANSFER PROGRAVAE cettinal Approximative - Colled whow Trusting Custoly of Kuith Holliday St NPS To Chuck Status of Rop. (7.20 Ms) SAMPLES IN Rothigenation Truck To Portland-based UNS Staff who will then doliver Note: Discussion on The dock indiented the NPS Harling of Truck to ALS Global in Thon split suples have Three Kulso, MAD deviations from The OAPA? Remaining day sport doing Papenwork, Isinday, sul Posting. They por using a 2nn siturnot B SMM SIEVE Washing The sample Through B) They are not covering the souple with water in the Buckets 319-504-3733 0800 ARS Laura Mc Cullo From The NPS ARIVES TO Join The Dard M. Nove 9/15/13 Tictor Supling Crow 9/16/13

Location 2 Rivions Manina Date 9/16/13 25 Location 2 RIVENS MizINA Date 9/16/13 Project / Client UCA Phose 2 5rd. Study Project / Client UCR Phase & Szd. Study Trall AMENICAN tock American pensenibed procedures stated in the EPA-approved DAPP. 0845 - A- Lours McCullough is Steve S. From Grovity Briefs And That was stone The 32 yp/k in the Rolligenstal Truck Land on Safoty, UNTITHE MPS CARE PICK it Up. OBSO NAS TINON DEPONTS DOCK URS Agroad to do This. 1130 Has The Tohoma Sompling crow NOTE: The UPS TIETON SIMpling TEAM Collected a Porrnation 13/sex finished their Two locations and Sample This Monning "PW-7-El Roquested purmission to Move to Location Rol-8 To Collect Using the comme sin stone. The Chant Biossoy + NPS Splita 1630 MAS Titon Roturns to Tho I contacted Koth Holliday An Tho Dock with The MPS ciftinal NPS for Approval to Sample Phis Observer on Board. jocation without NPS observers To Recept the split. Kisith stated 1700 Kns Tohoma Rotunisto the it is OK to proceed so long as into The Rolling on Stan Truck The EPA observer is Thomas To Withers The process and will indicate that UPS followed The Donal R. Kon 9/16/13 Wand The Hose 9/16/13

Location 2-Rivons Arrow Date 9/17/13 Location Spring Chayon Date 9/18/13 21 Project/Client UCR Phase 2 Sad. Study
Took AMENICAN Project / Client UCR Phase 2 the Sad Study Tock American 0736 MPS PENSONNE PRIVATO TOKE 0700 ARS OSSUMBLUD AT The dick custody of Split Somply from TWO EPA OBSTAVOUS ONE NPS LOCATION REC-8 observon, over CCT observon, and NPS oversight pensound 1115 HAS Chrolled out of Hotal and left for Grand Coulors. 0145 Ans Conducted Sister Bristing Milozg = 13609. 0810 BOUG DEPART DOCK SHOND 135 Hrs Arive Spring Conyon Now location Suppliers at Boot barren . Om local POC Wis with The MPS is List of Observers and Oversight

EPA: Burt Shophand

Mott Wilkering

W665: Ken Kyde 509.754.7814 CEIL 509 631.273/ Chief of Russuneus cet Ene oshwas Voss + Chines 1600-1900 HRS FILL TEAM MET TO NPS: 13:11 discuss split sampling procedures Jon Edwards

Kathenine Francil an play a consistent method to Ward R. Hon 9/19/13 MIM: Elizabeth Epap

Project/Client UCR Phase 2 SED SKDY

TECK AMERICAN Project/Client UCR Phos 2, 5rd. Study

Tuck previous 0700 ARS MOT OF DOCK. MANY AND CHOM ON THE 4:45 PM BOTH BONTS RUTURN To Dock, Completed Schoolyed Sampling locations for The day DS EPA OBSERVER 0720 Ars Evidet Sofaty Brise Fully Sampled at Rof-108 0745 GARVITY Adjusting hydraulic 1700-1800 Kns Chutfed Samples
And Stanted Thom in Potent
Rofnighted Touck Back to Lange Pown Grab on Tistor for Bisassay Sumpling 0800 Tahona Depoints Dock - Proport for the next day 1900 Discussed NPS Split Souple 11:15 Tiston Knives at The dock Collection with Bunt Shiphard of EPA- Specifically The which of the smaller grain size on The tricity. The NPS is NOW SIEVING OF SITE NOT ON THE LAKE. 17:45 NPS Boat Potens to dock 18:15 Tohana Rollinus To The Doll David R. Hon 9/18/13 Dard 12, 1 Xon 9/19/13

Project/Client UCR Phase 2 Sed Styly Location Spring CANON Date 9/20/13 Project/Client UCK Phosis & SEd Stydy Took princer TECK DYELICAN 0700 KINS Mont AT The dock Note: The sampling cnow had very and load supplies on The Boats sample of postion Rod-8.9 11/14 0790 Kins conduct Safety Bride After 14 Trys of This location 0755 Has Boots Depart Dock obtained 3.5 gal. of somple That was split Equally with the Short Cron packing Spaples NPS. The ensw Then noved From 9/19/13 For Tronsport to DANT TO REF-896. The control point of the sample cincle is just out of the water on The part 3 AMPling PRED at Rof-8596: 47/14 1700 Hors Boots Roting to Dock Cold not Sample off school but 15, ThEN Brdnock And CobblE. locations. Moral To Sample No Sangle can be collected at location 8-C1 on 9/21/13 with This location. A SinglE BOAT. 1900 HAS Close up Trucks and wood to order Master Flox Tubing 96410-16. Other Monthings Hood to Matis ON PACKET 36131173 77050007 25 FT/POIL David B. Hon 9/19/13

Location Woodin II E WA Date 9/20/13 33 Location Spring Compon Date 9/01/13 Project/Client UCB Phist 2 Std Study
Lak American Project / Client UCA Phoso 2 Such Study Tock Amonican Dispirit Wood wills for Grand 0600 HOS Anival of docic 1 How Early bucker of The schoolided Start of The Milesy # 14024 Grand Corles Tripthofon 1915 Ans Amir Grand Couler With Duplicator for Sudiment AND MISSO for Poronation 15/5/19 Anivo Rumbon Brach

Front DRA

-4/107/10 14334 9/25/13 0630 Aps to ten Doponts
The Doule 1145 HRS Tixton Roturns To Dock with Samples from Location & Cl Michalle and Soroh left for Pontland, Bill + Tony will drive The Rolling on the Truck to South Al and I will drive to Woodinville Mink will stay in Grand Color Dust Rithon 9/23/13 David R. Hon 9/81/13

36 Location Inchillin, Who Date 9/94/13 Location Luchs live Date 4/24/13 37 Project/Client UCR Phas't 2 Sed Stray
Took American Project/Client UCR Phase 2 5rd SKULY
TECK AMERICAN The Inchelian Boot bound The Clivic has Agriced to Allow This To Take place. 0120 Mrs Conduction Suffety 10:45 A/25 Schralled Fratto Pickup for Word. of Tho Clinic and Called Knis McCoig to Chockin. Briefing. Load & supplied 0745 Jins Contested ALS Poropoton Kit inventory Conducted for Additional Pensonation 32-with sinstones
43-without ainstones Bottles. North To introlify Detivory Location And Call ALS 17:15 Tahoma Roturns to the dock 0810 Ans Boats Departed Tho 17:35 Tiston Returns To The dock 0830 Hrs Mot with Ali DESOUTED Dinvetor of The Inchidium Hosth 1800 Ans chur IN with Paul Clinic To MASNO FOR PERMISSION McCullough and Roturn To CAMP. Darl R. Hore You/13 To Ship over Roceive Fredex PACKEDS Through The Clivic.

Location Luchalin Boal Launch 9/25/13 41 Location Inchedium Date 9/25/13 Project / Client UCR Phys 2 Sed Study
Trak American Project / Client UCR Phase 2 5rd Study Tak pmonical Controlled Boat an Sate 1330 HAS ficked up 12 colons phone They reported to bring Abott 30 mintes from of Supplies of The Tuchelium Hosth Clinic consisting of ponewater Kits and ponowater The dock and and running with partial power. Gravity's other error is on standby CONTAINERS. TRANSFORM SUPPLIES into Box Truck and updated inventory 1900 HRS Sword Gnavity Safety
Book DEparts Dock To Lord
ASSISTANCE. 1500 ARS Rovivord YESTERDAYS field notes with GiVA Francis and answermed hon questions. 1930 NAS All Ponsonol and 1640 Tiwton Roturns To Dock sind Somplys Bock of Dock Took Returned to Comp, I went to CCT community Safaly. center to Aldress questions 2030 HRS Stove Sauger of from The URS project chanist. Grants Called To Say That The 1845 Kotinued to Boat lounch Tahoma will not be operational Tahoma Hos not yet peturind. TOMORNOW (9/24/13) dus To Would Am 9/25/13 David M. Hon 9/25/13

Location South Twin Lake Date 9/05/13 Location South Twin Lo KE Date 9/25/13 43 Project / Client UCR PHASE 2 Sad. Study Project / Client UCR Phase 2 Sed Study tall American TOOK AMERICAN Muchanical problems. Thenenow The Rovised work schoolle will is the Time to Attempt 50 They could provide AN Observen for the soupling REPAIRS. At Mib - 3. They heve MODHRS I spoke with the not been attending the EPA ovensight penson (AuditA Morning sofety mortings Lation) And we signed that Since we bogon working WE CON USE THE TIME TO out of the Tucheling boot launch. collect Tributary Somples At Lastons Trib-land Trib-3. I Then notified The URS eron of the change in plan. 2130 HS - I placed a call to NPS (Kuth Holliday's Coll phone) and 18 to MUSSAGE informing him of the Change and Requising That the NPS team come to The Dock AT Inchedium in The Morning to Discuss

Location Inchalium Boot Wouth Date 9/26/13 Location Tuckdism Date 9/26/13 45 Project/Client UCR Phase 2 Sed. Study Took AMENICAN Project/Client UR Phase 2 Seed Study
Tock- promiser 0700 Mrs crow pseubled At at dock. I have a brist the dock and discussed what CONVENSATION WITH RUTTA consol The Tohoma To TAKE ON Holliday to go over the plant for the day. water yestenday and what MEASURE AND bring implemental 0755 Ans Tixton Deponts the to hop provent this. Installation of a over way chock value in dock The bilger pump dischange hose 0930-1030 AMS PACED CALLS And discontinuing To brach The bost on a windshed show. To PAU McCullough (URS P.M.) Kris McCare, and Shaw Hinz (Gravity) to discuss what happened 075 Hrs Conducted safety brief last right and assure Everyone That our Sistery procedures 0730 Ars Crow splits into boatworked as intended. sompling and Thib-sompling Trons, Trib-soupling Toring 1030 - 1330 HAS Trivoled to location deports to Assemble accuipment from ToppMA To collect somples Trib-I and assisted with The st This location Sompling Dail R. Hose 9/26/13 0750 PANK SERVICE BOST ANAVOS David D. Aon 9/16/13

Location Inchiling Both Lourch 9/11/13 47 Location Inchelium Date 9/26/13 Project / Client UCR, Phase 2, Sud. Study Project / Client UCR Phase 2-Sid Study Kock Amonical Took BANACHN 1330 MET MIKE ROSENFULD (URS) 0700 NAS - Kiting cown ASSEMBLES at the Hosth Couton and At BOAT LAUNCH - TOHOMA BOKK Sport the after woon discussing in survices, weather turning coldorn operation and assuring ER. No Wind Rivon Calif. his questions, Mille is hono Main Popic during saturty bring conducting an audit of out was The cold and punding our openations for QC RAIN FORCEST TO COME IN TOMORAN We will begin Korping our 1715 HRS not the Tiutow of the dock Mustary Suits on The Bosts 9/28/13. To discuss today's sampling From Trib-1 To NPS crow. somples as They come off The Bost. 0750 HRS Tiston dopants dock. I discussed The proding Governomon shutdown with Koth Holliday. He requisited a list of all of our com Members And Volicles To pass slong to The NPS Dand 12. Horse 9/26/13 Payens. 10. Hose 9/21/13

Location Incholing Bust Laurage 8/27/13 Location Incholism Boat Laurch Date 9/21/13 49 Project / Client UCR, PLASE 2 Srd. Study Project/Client UCR, Phase 2 5rd Study Tock Agenican Trek Amonican 2805 Has Thomas deports The Respected material. An isothernt volume of sediment was collected To provide NPS a split souple.
Two alternatives: 1330 HAS No Fred Ex Pickup Today BUSIST Today is Native (1) Obtain a waven from MPS AMERICAN Day and The Hosth Acknowledging won- roceipt of souply Clinic is closed. So we drove 2) Ratinu Tomproon with long on YESTENDAY'S SAMPING To COlville grab and ses if it can for Pickupa collect sufficient volume of 1530 Tieto N Roturns To The dark MATURIAL and discharges Com and 1740 HAS RATURN TO COMP End of work day, 1730 NRS Tahoma Rotinus To The dock. But load status That Atotal of 8 gribus of sudingut Was obtained at Rof-5. Bost proceeded to The Rox-5 postavo location but only collected Dar R. Kon David R Hon 9/21/3

Project/Client UCA Phase 2, Study 51 Location Inchilian Bost Laureh Date 9/28/13 Project/Client VCR Phist 2 Std. Study 0700 Has Anive St Boat Laurch The URS Songling Lisads Both indicated that Thein expenience Discussion Rxf-5 location with EPA/CHON oversight collecting sediment at Rof-locations punsound us follows. After suggest that sumpling with The long in grab woild be just as rovivor of pentinent sections of The EPS Approved GAPP problematic of not mone 50, given UPS determined That we have The substrate At Those locations. ENKILLE The Requirements This consists of glound ortwood containing a mixture of cobbles and for somple collection at This location with the exception of Sands within the wave Tho F volume for TIA And The Rut-locations apo situated within The take portion of the loke bottom NPS split. The NPS has agriced To Sign & woiver of presipt for That is puniodically exposed as This split sample AS specified in The like sur lovel drops; arthu This pennits The EPA has Active WAIR ZONE, The section WAVE Zows wished away Thy Fine grained discussed Thein dusing to Roturn MATERIALS leaving bards of cobbles To Rof-5 with a langua grab with The intention that the and fines exposed at low water langua grob will product sufficient 1545/5: Volume To fulfill All ANALYSES + David 1.1800 9/28/13 split places. D. How 9/28/13

Location Inch Strum Box Though Date 9/30/13 53 Location Turk Elium Boot Lauk Date 9/28/13 Project / Client UCA, Phase 2 Sed. Study Project / Client UCR, Phase 2 Sud-Study Tock AMERICAN TELK PMINEAR The UNS First brank Look Will 0700 Nas Cron assembled at contact Tock to discuss this The Boot hounch to discuss The day's activities. We may be and ASK for dinvetion on This Topis breause Those conditions limited to whitch locations con Will brome mone forguest AS be secusived by coust of wind sampling progressed up storan. It is connorty as in at The launch bit we expect rough water at 6930 Has Colled Marks Adzic NON-shottemed focations. of teck to Brist him of the 07:30 Kins Conducted Safety situation Roganding Ref-5 And Ref-56. No will discuss This prior and updated the with Land Butlow AT The EPA Com rogerding how Thu on Monday, 9/30/13. school of may change should The fodenal govorument shot The pendy punding Government Shot down will import out down. This Appeares likely 0815 HRS Bosts dipart The sampling school to Should it occur. Pad R1/100 9/30/13 Darl R. Man 9/28/13

Project/Client UCP Phase 2 Sed. Study

Kak American Location DASY BOX LOUNCh Date 9/36/13 Project/Client UCR, Phos x 2 Sod Soupling 10:45 Mrs Mut Tiston AT Dasy WE have progressed with our Boot banch To Hand off Equipsompling to the extent that we supling AT TRIB-3 Will Deposit Faran The Kottle Folls Boit Laurch on Truschy + Wodnischy This has book Communication To The 1200 - 4900PM ACTENNOT having EPA, CHON, CCT, And STI dus ANY K-MAIL FOR 3 days I The NP5. grind Acres and discovered That suppling AT Trib-1 without 1700 HAS RUSSIVE WMAIL FROM LAUNA BUEFON FOR OF THE EPA REGULATING cet ownsight has coussed A A Povised Schoolulo That Will problem with The cet cultural be implemented should thouse RESUMERS GASUP. I SPEUT THUS be a government shotdown. often wow Trying to express That Their exclusion from This sampling Roturning to Camp to proposar This schooling. vals not intentional. This notion was discussed with The act, tack, EPS, and UPS project staff. 1600 HRS The Books Rotunito The Tuckerhum Dock. David R. Hon 9/36/13 David A. Hose 9/30/13

Location Kuttle Falls Date 10/01/13 Location Colinille in Date 10/01/13 57 Project / Client UCR Phase 2 Stal. Study Project / Client UCA Plast 9 Sed. Study Kell Amonican Touk Anonical 0730 HAS ANIVE AT KATTE PALLS Organized Luches for The URSX growty com from Sanly's in Boot Lovich. Discussed Kottlir Falls. The impact of The Government shot down with The Crow. Stopped in at the Confort in to Move our resurvations up so The director of MPS his presumound Ted that the UCR Project by we can check in on Thinsday considered assurtial and There-And salect 3 Room Close funt into can continue to work on together was The down for The National Rosportion proto. The Shore Crew shop to show then the tralex drop site Contacted Enic Doshwing Voss To confinm that he is not istonisted in Observing at Trib-3 os long is STI oversight is 1100 HAS Rotunned to techolien present. He agreed that is Connectly Conton to USE WIFT sacroftable, Nes 1/50 continued And MAKO CAUS. That he will be on site Iniday and Saturday 1930 NPS Simpling Crowns Roturn Dark A Hone 10/01/13 David B. Non 19/01/13

Location Rainbon Beach RESONT Date 10/03/13 59 Location Krimbin Boach Rosont Date 10/02/13 Project / Client UR Phisz 2 5rd Study Project / Client UCR Phr. 52 2 5 d Study Took Amonican TEK AMMICEN Today is a school Rost Day 0930 HRS Churched out of The Will sprud The day cotching up on Popen work, Moving Refrigenated Truck to Krttle RANDON BOOK ROOM S.W Mobil Cron to The Confort Tun in Cdvilla. Folls, Mosting with Movies Tours Millage 15037 of ERA And Conduting Maintenaux on The Gravity Boxto. Spirit The Day Sotting up pt The Confort Tun catching Worl (Ed in Lobery of Confort up on Umil, sol challing In production and IN with the URS project Call into The Office. Mark Com Day 12/1 How 19/02/13

Location 15 11 Falls 134 at Date 10/35/13 61 Location / Date 10/04/13 Project / Client VCh Phase 2 Std Study Project / Client VCR Physic 2 Stod Study Took powerican Took privace 2730 Hors, Crun 1556/15/15 AT 0730 Was com pesconblos pt The Kally Falls Bost Launch Boot invisch , Discuss Today's and props for the day. Sampling Bets tiss. Sinor of list split somple to MS Signed of two split samples
To NPS That work Collected
on Tussday. That was collected wanty in The NEOK Will Focus Today's Lostions. Bionssey Supplied 0800 Candusted Satisty Brist. 0915 Uns Conducted SEFETY
Brisking Korth William of NPS signed off Coustion Roff and Ruf-Sb. 0805 Uns Book Diggent The OSISHRS BOOKS DYDANT The DOCK 0930 M25 Pinchesod [/499, 'ng Topo sid Handprings 1630KMS Boats Return to Dock South McDavid and I will some of Nancy Crook to ID 40001100 Has Digent Hotel for Somple Localian. Quil 12. Bra 10/4/13 Novey Crook. David R And

Location Kally Falls But Land Date 10/7/13 63 62 Location Macus Camp Ground Date 10/5/13 Project / Client UCP Phase 2 Stool Study

To K AMENICAN Project / Client UCA Phose 2 Sed. Study Tock Byonkhar 1300 AS MET BOST CHENS ST The 0730 Mrs Crow 155 per los AT BUNT Brah wel Took 12 Buckets of To look Van For Thibitary Sample from Thom And Put Buckets into Rafnigornood Truck. Sampling At Marcy Crook and one Boot to Single on the Lake. 01145 Has Conducted Sitisty Bristing 1570 HIS Tixton Paires AT DOCK 0800 HAS The Shane Crow and The 16 15 ARS TAHOMA ARIVER AT DOCK To which romining Sample Tistor Bost Crow with EPS over Sight and The CCT cultinal Monton Moved to Norty Court to souplar focation Trib - 2. 1900 NRS Transfor Somples into Rodriggerator Truck 1000 Hrs Bogan collecting porromation From The LoxAl Tub. Contactor The other boat and dotained The gonostattic gump That works with gravity's portable gournon. when with The purp ponsuation collection proceeds very slowly. Dad T. Hoar 10/5/13 Land By from 10/1/13

Location Kellie 17/8/13

Location Kellie 17/8/13 Location Nava Crusk Date 13/7/13 Project/Client UCR, Phist 2 Sadi Study Track American Project / Client UCR, Phase 2 Sed Study
TECK AMERICAN 1145 HOIS COMPLETED SAMPLING AT Trib-2. world Samples and Supplies into Man and Return To Kettle Folk Boat Laurch 0730 ARS MET AT DOCK AND DISCUSS Today's Sampling 0945 HRS CONDUCT SOFETY Brisk 0810 HAS Boats dopont The dock 1630/195 RETURNED TO KATTER Spirit Morning processing Books comming in. prom work and Brieffing 1730 HAS Deport Boot Louis Paul Mc Collough on project project budget. 1350 NAS DEPARTED HOTEL TO
AUCON SAMPLE TOUTIONS AT
TRIB-4 AND 5. Swlitted Locations of Both Colvillo. Ruturadol To Colvillo. Non 19/8/13 Band R. How 10/1/13

EPA NUM D004 D005 D018 D006 D019 D020 D021 D022 D007 D023 D024 D025 D026 D016 D016 D027 D028 D029 D030 D012

D032

D033 D034 D008 D013

D013 D009 D014 D035 D036

D037 D038 D010 D011 D039 D015 D040 D041 D042 D017

Inchelium, WA 99138 ce Kasevelt Community 39 Shortcut Koad 509-722-7006

Charles Flott HJSKAW7ms

*Hazardo

Miniter 1840 Mais no ALL-WEATHER THANKITRONIN I TAMES IS

Rile in the Rain Wall-ALL-WEATHER WRITING PAPER NO.

all-weather **Environmental** Fifeld book

Name DAVID K. HOSE UCR Field from Coordination	
Address	
Phone 206-945-4643	
Project	

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The second of the second			
2			Location Kottly Falls Boat Level Date 10/9/13 3
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PAGE	REFERENCE	DATE	0730 Has Com Assembles of The
			for Today: This of and River somplies now Chien Bund.
	-		0745 Conducted Safety Brive
			2895 Boits Digit Doct (& Paul
			Mc Culough and O. Noge Travel to Northport to ment
			with Survey Group for the
			0930HAS Averived a Call That The
			Tahoma is exponioneing weeks weel
			problems and is down for Repaires
			5030 NAS LEFT NONTHOUT FOR TAIB-Y Sangling Location. Matwith Stove S.
			Dand R. Hose

Location Colville WA Date 19/10/13 Location/ Tot CALLE Date 10/9/13 Project / Client UCP Physt 2- Sud Study Project / Client UCR Phase 2 Sad Study Took American TECK AMERICAN 0800 Ans 16 on-water sampling Apparently own of The Two Motors failed completely and made To to be conducted body, Gravity Environmental To Spied Today be replaceds o Motor 15 AVA/Ablo in Smatthe but will require and Tomornon repaining The Takens And conducting Governal Minterpret multiple days to Replace. on Armanine Books 1130 HRS UPS Suppling COON From Hot of UPS Sampling Tran To Potate out Today with Roplace Must To Anive Sinday 10/13/13. location, Plan is to assist with Sampling and take Trib Sompling BAUIGNET BOOK SAMPLE, TAIG-5 The pension UPS staff EPA avonsight, cet observed, and DUCK Trib-4 is fivished a 1230 MS MOVE to Trib -5 2 Gravity Chore MOBIE To 5-Mile Crack To Simple Location Trib-6. 1945 Aps Arive At Trib-5 sampler 0930 Mrs Anivo at 5-mile Crost To switted sampling ountion. Spokes 1545 HAS Completed Sompling of with war-by resident To let Bul Trib-5 location Know what we spe doing. Dard Ph. How 10/9/13 David W. Nov. 10/10/13

Location Chinis Birth Builta Juch Date 10/14/13 Location 5-11/12 Cross Date 10/10/13 Project / Client UCA Plase 2 Sed. Stuly Project / Client UCN Phase 2 Sad. STUDY Teck Brunican 10:00 Hrs Sitested Simpling location DEODKIES ASSEMBLE AT CHINA Situated between At. 95 pul Bord Boxt Land, Pot BOALS The BASE RR TARKS. in with and load for Thoday's work This process toll longer 10:15 Has soundled Soupling Thou usual browse of the Sofety Briefing to discuss the issues specific to This site. Effort unded to still The MSZOMA CON Sompling. 0845 Has bounded mazona and conducted The solety mosting 10:30 MS Transformed Equipment slope 2 50 yds to crosk. 2930 HAS Botts Depented the 1100 HPS ONED SAMPling Tram is 0940 MAS MS prosono seive To Lovich Their Boxt. Setup Bill Ridden and Dove Low Rolling to Colville to ship yesterdays somples and Books Rollmand to Dock At
1630 NAS Colleted Pinsilo
Sopplies.
Doid P. Hose 10/14/13 process papernont. Dovil 12 How 10/10/13

Location Chino B und Boot branch 10/15/13 Location NonTyport WA Date 10/15/13 9 Project / Client UCR- Phos & 2 Sand Study Project / Client UCR Phase 2 Sed. Study Took Annical Took Aymicon 0800 ANS ASSUMBLE ST ChiLA BEND Kussmy Joeston 9-R9 is Best trivil and Prop for The octobe NPS MANAGER ANVAS. days Activities Note: Kouch of Tool Al in FOP indication That Location 2-R9 0875 MRS CONDUCT Sofoty Brisk is within The MFS MANAGER ORK And al Rivon Mile 799, on one instot The idge of NPS 0830 ilas NPS Ponsound prive 1530 Ans Moved to China Bund 0840 NOS Sugling Crow Dyparts Boot Louis to Most Crons. Mizzama had docked and wis processing simple. 0915 HAS Averised A Call From The just of Pro Dock, NFS
Boat pulled from Water Tiston Sampling Crow To Ask it They should collect a MPS split souple of location 2-R9, which is A RESEMPT JOE ATON FOR 3-BUYE BLANDE 1630 Ans Tito Docks and 3-By is within MPS MANGED AREAS Process 50 mp/s 10/15/13 I Told Thom "yEs" won Though Ward R. How 10/15/13

Location China Bund BOAT LANNEL 10/15/13 10 Location China Brand Boat hauten Date 10/15/13 Project / Client UCR Phase 2 Sand Study Project / Client UCR Phiso 2 Std Chily TIECK American Took promiced 0745 HAS Anive of Bust Lounch 1700 Nas Completed Collective MET STEVE PANKEN, STEVENS PONDNIEM SAMPLE AND BROWN County comprission who Processing Sediment Was on site to incure sport NoTO: The Tister SAMPling Tran our setivities Rejected Location 2-RYO After consultation with the EPA and UPS roprosuntativos bocars Steve Parker District 3 The out Samplin breams such on A Rock outher Rivon bod. **Stevens County Commissioner** The decision was bosted on A Office Address: 230 East Birch, Colville Mailing Address: 215 South Oak St., Colville WA 99114 high probability of lossing The Email: commissioners@co.stevens.wa.us Grab Somplon . Cell: 509-675-8659 Office: 509-684-3751 TTY: 800-833-6388 FAX 509-684-8310

12 Location China Burd Bust bouth 19/6/13 Location Ching Brack Bout Lower Date 10/16/13 13 Project / Client UCR Phase 2 Seel Study project / Client UCR Phase 2 Sed Study Tock pourickal 0835 NAS CONDUCT SAFETY BRIEF. Granty Roperstan The possibility Discuss That Boat CAPTIANS CON 25 won King with a single boat crow on saturday and hairing Tho Refuse To Sample a location of Swand bost stand down. I They believe it will Risk The loss of The Souple Graba This hold Then I will constructe The progress and is will discuss it has my full support, and That of his on Thursday 0850 HRS Boits Depart Dock. Shone Com Processed Longo Volume of Paperwork from Yoskaday. 1530 HAS ROZOINA CALL THAT bust course 1600 HAS Brivest China Boad Bost bauch All work for the day is completed and shows Cron is checking in Sample Mationis . Darl H. Non 10/16/13 Dud R. Hon 10/16/13

14 Location China Bund But Valor Date 10/19/13 Location China Boul Boat Lauren Date 10/17/13 15 Project / Client UCR Phase 2 Sed. Study Project / Client UCR Phose 2 Sed. Study Tak pomenica Twee American Book Dypot The dock ogo HAS 0945 HAS prive AT But buch to Brop for The day. 16:00 Ars Book Roturn to ChiNA Provided solveted schooling Bud Both Souch, Of bad ckows TO COT AND EPA WIL discuss part Ssaplus. Discuss today's with writing how ouch I activities with LPD oversight Carton with Stove S. of popossatations. Decide to launch From Northport Boot Laurch Gravity. priorrow AM. Government shutdown is over. Rogular MPS cultural obsenyon 18:26 JoE Wickman Called To (13:11 White) notoms to project. discuss Observing Mondon Tor. (509-732-8346) A notified The Grow That Confirmed for TUE 8:00 AM @ WE Will be nonling a single Northport Boat Laurch Bost Cron on Saturday, Then Rossival a IN-plops AT MUSSAGE from Gy Morra of The Cot Rogerding my changing The Work schooling, 10/17/13 Doil R. Her 19/17/13

16 Location Want point Boot Law Date 10/18/13 Location Northport, WA Date 10/18/13 Project / Client UCR Phiso 2 Sed. Study Project / Client UCR Phos 2, Sal. Study Tuck AMERICAN Locations by Both Boots. They OSDUHRS ASSUMBLY AT THIS Will 100 - Frag oron locations 76" Boot Lauch to Isunch The But's and prop for The day, NESSENJO ONO SOMPLE /action Hory Fog this morning. will not apply to Both Bisassay Wisibility ranging From 100 Ford and Chan, Only Lantions. to show /2 Milw. 0945 Uns BOOTS Depart From 0830HAS GRAVELL SAFETY BOUT Vocustal ON The foggy Conditions, The dynamic river conditions as Kot musel to A- Frans Lodging and companied to The static Residen Sout TAI updated soupling status conditions we and poring, and And communicated whit The plan The fact That The River Bails 15 For BIDGESTY SPITS and RESMUT stations issigned to Both chem one now private property - 25 Well as The Northport Boat launch only and Bionssay locations and we word to Respect That This 1600ARS FIRST BUST Actions charges 1700 ARS GROW BOSTROTUNS 0915 Mrs DiscussTal Procedure 1830 HOLE Finished Processing For Sympling @ Sour Rosondo Samplus and Pulled last Boxt John 2 19/18/13

Location Northport But Lunch Date 10/19/13 Location Nant pant Bout bounch Date /11/91/13 19 Project / Client UCR Phase 2 Syd Study Project / Client UCR Phase 2 Spd. Study Tack American Tock American 09:45 HAS ASSEMBLE ST BOST Lamen 0745 Has Drive of But pouch To Prop for The day old howen To Prop for The Day . Singler Bost to Work Today with Safety The BOALS. BONT and Chase BONT. 0830 MRS Conducted Safety Plan to sough at Rusenvo Bristing and Discussed Fating us sad complained whithing out stations for 2-Cl until Finished THE 1-RE IT TIME Allows. 08:45 Mas Extro Boths of complessed Gos prives for Maizana. 0900 AMS BOOKS Disport The Dock. 1600 HAS BOSTS POTUNE TO DOCK whole Comes said shot down for a day off on Sunday. 0915 Ans Boxls Dypent Dock 1600 MAS MET TIEON AND CONON ST BURT LAUNCH . CNOW WAS Chocking in Supplies to show Crow 1630 ANS MAZAMA Chow Rotters Dail 12/100 19/19/13 Durch R. Hoss 10/21/13

Location North port Bout househ Date 19/93/13 21 20 Location Nonth point Boat Laure Bate 10/20/13 Project / Client UCR Phase 2 Sod Study Project / Client UCR Phist 2 Sod STUDY Took primicon Took Auspier 2745 HAS DSSEMBLE AT BOAT Lamel 0745 MAS Cron assurbles of the Bost Lauch to Prop Forthoday 6 Prop for The day. De and lord the Boxts. Wickeyer from Citizens for a Chan Columbia is at The house 0810/125 Cardust SATY Brist to deserve for The day. Topic focusion on Exhaustion 0820 NAS Conducted SOFETY Briefing cousted by long duration of bownming complacent. project. Explisized used to to vigilant old bypay other son 0840 HRS Book Organi Laurch 0895 Hhs Boils Digan The 1600 Ans Ruevivod CALL FROM Kris Mc Cajay AT Tock To discuss 1540 HAS BOSTS Retven to DOCK s problem with ups own our worth, sport the often noon responding Log Doze To information proposts Rulated To Bisassay sompling conduction on Mrs proporty. Dank 12. Hom 19/23/13

Location Chius Burd Bust Lamber 14/24/13 23 22 Location China Bril Buil Lounch 19/24/13 Project / Client UCR Phases 2 Sod, Somp Study Project / Client UCR Phase 2 Sod. Study
Tock Amorican 1935 NAS Contacted Took Offer To inform Them of Samphing Completion 0800 Mrs Cron and Books ASSKABLE AT THE CHINA BUND Bost Lower To pring for Tho Mount on to wothy him of Sunpling completion 08/5 HMS Conduct final salety Briefing of the project. Toward.
Through the run of the day. 1455 ILAS Demober from Boat bouch and Roturn to Lozy DAZE for Divira 0830 HNS Boils dipant dock. 1335 APS Anived A China Bound Boot Louish. MozoMA has Rotund sed is off loading Samples And Equipment . Support bout 15 on The Tanilor proponing to depart 17:30 Hrs Size of Boat Annivos At Dock And Unloads equipments Double How 10/24/13 Dard R. How 10/24/13

Location Monthport, WA Date 10/25/13 25 24 Location No. 1/2011 Date 19/24/13 Project / Client UCA Plase 2 SED STudy Project / Client UCR, Phys & 2 Sud Study Took American Tock AMERICAN 1030 Ans Dypart Month point NPS Split Samples: AND 16453 SE-3-R8 SE-3-R9 To Bo delivered To Kork 1/30 HMS Amire Wathermans Holliday AT NPS on Friday You in Kotto Folls to Sample Decon Rischlifton for Bunlysus 5 - 55-golby druns of water und pf MED SUNSMUTS BOD our composit souples. Will collect our 16-02 jan of Suplo withou from each drum To be composited at Lab and ANALIZED CON TELP-REPA FINITIONS pH Roslins # 1 - 3,89 and 3.85 #2-3.13 and # 3 - 1.93 and 2.21 # 4 - 2.19 And 2.42 Darl R. Hon 10/21/13

26 Location Kittle Falls Date 19/25/13 Project / Client UCR Phrs 2 5 and Stuly Project / Client ___ THE PARTICAN 0700 Has Pick up BITIATIONS 1320 Ans Dopart Wolformi's Xand sul Prive To URS SUATTE for SURTIE Offer to wood Congo Van 29/5 HAS Rriver Wadiville, WA And Most Bill Kidden 50 Bill and Al con dolina bilk MilEME 16852 sodinous samples to ALS in KMSO, WA 0930 HAS 1-Just unlosding cango van sud digant Building 1930 MAS Rollind Routel Visa To Enterpoiso in Todon Lako. Milogy 5 16902

Juff 208-340-9438 Tre wichmann 5097328846 jwichmann@wildbue.net

APPENDIX G SEDIMENT GRAB LOCATIONS

Sediment Grab Locations Upper Columbia River Phase 2 Sediment Study September - October 2013

					3e	ptember - (october 2	013	
Station	Easting	Northing	River Mile	Water Depth	Time	Date	Grab Count	Notes	
1-B1	453507.79	5427467.9	744	14	9:47:44	10/21/2013	1ST	Rejected	Failed 5 & 6, cobbles
1-B1	453510.3	5427457.14	744	13	9:49:43	10/21/2013		Rejected	Failed 5 & 6, cobbles
1-B1	453487.8	5427454.39	744	12	9:52:06			Rejected	Failed 5 & 6, cobbles & gravel
1-B1	453501.64		744	13		10/21/2013	4TH	Rejected	Failed 5 & 6, rocks & trace sand
1-B1	453533.87	5427395.17	744	12	10:04:42	10/21/2013	5TH	Rejected	Failed 5 & 6, cobbles & gravel
1-B1	453554.22	5427431.46	744	9	10:07:44	10/21/2013	6TH	Rejected	Failed 5 & 6
1-B1	453527.92	5427391.51	744	9	10:10:17	10/21/2013	7TH	Rejected	Failed 5 & 6, Did not close
1-B1	453551.22	5427421	744	9				Rejected	Failed 5 & 6
1-B1	453504.68	5427379.29	744			10/21/2013		Rejected	Failed 5 & 6
1-B2	451645.96	5424106.33	742	25	9:40:46			Rejected	REJECTED FOR SAFETY AND EQUIPMENT CONCERNS
1-B3	449424.36	5422560.85	740	14	12:51:08	10/21/2013	1ST	Rejected	Failed 5 & 6
1-B3	449396.85	5422553.93	740	15	12:53:14	10/21/2013	2ND	Rejected	Failed 5 & 6
1-B3	449374.17	5422537.89	740	10		10/21/2013	3BD	Rejected	Failed 5 & 6
		5422539.64		11		10/21/2013			Failed 5 & 6
1-B3	449377.02		740		12:57:22		4TH	Rejected	
1-B3	449363.72	5422530.9	740	13				Rejected	Failed 5 & 6
1-B3	449359.39	5422522.99	740	14	13:01:26	10/21/2013	6TH	Rejected	Failed 5 & 6
1-B3	449355.43	5422528.16	740	15	13:03:10	10/21/2013	7TH	Rejected	Failed 5 & 6
1-B3	449343.28	5422523.59	740	15	13:04:53	10/21/2013		Rejected	Failed 5 & 6
1-B3	449357.27	5422524.31	740	15	13:06:46			Rejected	Failed 5 & 6
1-B4	445730.81	5420988.71	737	14.5	12:53:28	10/23/2013		Rejected	No recovery
1-B4	445726.15	5420962.66	737	15	12:55:22	10/23/2013	2ND	Rejected	REJECT, 4 rocks
1-B4	445715.64	5420970.46	737	15	12:58:00	10/23/2013	3RD	Rejected	REJECT, cobbles
1-B4	445702.48	5420969.37	737	14.6	13:00:09	10/23/2013	4TH	Rejected	No recovery
1-B4	445659.13	5421001.01	737	15.4	13:02:21	10/23/2013		Rejected	No recovery
1-B4	445696.81	5420982.93	737	14.1	13:04:44	10/23/2013		Rejected	REJECT, cobbles
1-B4	445737.39		737	15.2	13:06:57	10/23/2013		Rejected	No recovery
1-B4	445687.2	5420956.37	737	15.6	13:08:11	10/23/2013	8TH	Rejected	No recovery
1-B4	445741.17	5420991.1	737	15.7	13:10:23	10/23/2013	9TH	Rejected	REJECT, cobbles
1-B5	446335.77	5421178.89	737		16:09:23	10/18/2013		Rejected	Failed 6, vegetation, washout
1-B5	446342.04	5421188.12	737		16:14:23		11TH	Rejected	Failed 5 & 6, gravel
1-B5	446339.85	5421172.88	737		NR	10/18/2013		ACCEPTED	Accepted
1-B5	446349.48	5421152.85	737	18	14:45:00		1ST	Rejected	Failed 6, weeds & gravel
1-B5	446346.26	5421167.29	737	6	14:53:54	10/18/2013	2ND	Rejected	Failed 6, weeds & gravel
1-B5	446357.35	5421175.14	737	5	14:56:43	10/18/2013	3RD	Rejected	Failed 5 & 6, gravel
1-B5	446365.96		737	8					ACCEPTED; MORE VOLUME NEEDED
1-B5	446355.65	5421172.26	737		15:40:48			Rejected	Failed 6, vegetation & rocks
1-B5	446363.18	5421167.13			15:44:42	10/18/2013	6TH	Rejected	Failed 5 & 6, vegetation & rocks
1-B5	446387.26	5421178.57	737	NR	15:53:02	10/18/2013	7TH	Rejected	Failed 6, silty sand
1-B5	446381.44	5421171.63	737	NR	15:54:26	10/18/2013	8TH	ACCEPTED	Accepted
1-B5	446343.6	5421185.04	737		16:06:12			Rejected	Failed 5 & 6, one rock
1-B6	446702.46	5420858.93	738		13:23	10/21/2013		Rejected	NO SAMPLING CONDUCTED BOTTON ALL COBBLES
1-C1	446814.02	5420452.26	738	22.2	13:17:39			Rejected	One cobble
1-C1	446825.87	5420470.59	738	22.3	13:19:44	10/22/2013	2ND	Rejected	Cobbles and gravel
1-C1	446834.38	5420485.63	738	25.4	13:26:09	10/22/2013	3RD	Rejected	REJECT, sieved and kept sediment
1-C1	446831.37	5420494.96	738	22.4	13:33:59	10/22/2013	4TH	Rejected	Cobbles
1-C1	446809.5	5420472.01	738	23.7	13:36:58	10/22/2013		Rejected	REJECT ROCKJAW
1-C1	446806.67	5420495.6	738	24.2	13:38:53	10/22/2013		Rejected	3 cobbles
1-C1	446822.71	5420491.48	738	23.7	13:41:06	10/22/2013	7TH	Rejected	REJECT ROCKJAW, 3 cobbles
1-C1	446821.7	5420474.49	738	23	13:42:59	10/22/2013	8TH	Rejected	REJECT ROCKJAW, sieved and saved fine material
1-C1	446824.59	5420471.72	738	24.2	13:47:10	10/22/2013	9TH	Rejected	REJECT, signs of sediment loss
1-C2	447418.46		739	3	9:03	10/22/2013		Rejected	NO SAMPLING CONDUCTED BOTTOM ALL COBBLES, shallow
1-C3		5421931.84	739	37.6	12:45:27				No recovery
	447758.13					10/21/2013		Rejected	,
1-C3	447808.06		739	24.7	12:48:55	10/21/2013		Rejected	No recovery
1-C3	447820.18	5421930	739	28.6	12:51:52	10/21/2013	3RD	Rejected	No recovery
1-C3	447820.4	5421904.55	739	26.5	12:54:43	10/21/2013	4TH	Rejected	REJECT 4 ROCKS
1-C3	447800.86	5421937.03	739	29.9	12:57:45			Rejected	No recovery
1-C3	447778.96	5421939.2	739	29.6	13:00:36	10/21/2013		Rejected	No recovery
									·
1-C3	447773.87	5421915.69	739	28.1	13:03:02			Rejected	No recovery
1-C3	447802.52	5421894.41	739	25.6	13:05:25	10/21/2013	ВΙΗ	Rejected	No recovery
1-C3	447772.43	5421886.41	739	25.7	13:07:34	10/21/2013		Rejected	No recovery
1-C4	453054.18	5425711.39	743	22.1	9:50:05	10/21/2013	1ST	Rejected	No recovery
1-C4	453060.84		743	20.7	9:55:06			Rejected	No recovery
1-C4	453051.09			21.7	9:59:04			Rejected	No recovery
1-C4	453044.71	5425719.39	743	20.5	10:01:46			Rejected	No recovery
1-C4	453038.04			20.7	10:04:24			Rejected	No recovery
1-C4	453024.75	5425725.17	743	20				Rejected	No recovery
1-C4	453042.3	5425685.18	743	21.2	10:09:32	10/21/2013	7TH	Rejected	No recovery
1-C4	453074.03		743	21.9	10:13:03			Rejected	No recovery
1-C4	453032.52	5425712.85	743	20.3	10:15:28			Rejected	No recovery
1-R1	453454.6		743	10				ACCEPTED	ACCEPTED; MORE VOLUME NEEDED
1-R1	453452.03	5427290.77	744	5				Rejected	Failed 5 & 6, coarse gravel & 1 rock
1-R1	453455.61	5427303.63	744	7				Rejected	Failed 6, sandy gravel, incomplete closure
1-R1	453432.21	5427284.33	744	14	10:47:41	10/21/2013	4TH	ACCEPTED	Accepted
1-R2	452637.44		742	6				Rejected	Failed 6
1-R2	452634.52		742	7				Rejected	Failed 6
1-R2	452629.69		742	5				Rejected	Failed 5 & 6
1-R2	452629.35		742	9				Rejected	Failed 6
1-R2	452614.77	5424713.51	742	4	14:01:53	10/21/2013	5TH	Rejected	Failed 6, gravelly sand
1-R2	452607.49			3				ACCEPTED	Accepted
1-R3	453166.06	5426576.28	744	33.2	13:46:27	10/19/2013		Rejected	Failed 5 & 6
1-R3	453185.56		744	35.6	13:50:45			Rejected	Failed 5 & 6
1-R3	453183.88		744	37.8	13:54:21	10/19/2013		Rejected	Failed 5 & 6
1-R3	453205.05	5426514.36	744	42.6	13:58:42	10/19/2013	4TH	Rejected	Failed 5 & 6
1-R3	453162.99		744	33.5	14:05:41	10/19/2013		Rejected	Failed 5 & 6
1-R3	453209.56		744	44				Rejected	Failed 5 & 6
1-R3	453210.94		744	38.3	14:12:09			Rejected	Failed 5 & 6
1-R3	453198.68	5426517.67	744	36.9	14:15:29			Rejected	Failed 5 & 6
				1 202	14:20:54	10/19/2013	9TH	Rejected	Failed 5 & 6
1-R3	453178.74	5426551.66	744	36.3	14:20:54	10/13/2013	5111		

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1487 1487	1-R7	448321.19	5422302.28	739	48.2	13:47:18	10/21/2013	3RD		No recovery
\$45,000 \$45,000 \$20,	1-R7	448343.47	5422307.17	739	48.4	13:53:22	10/21/2013	4TH	Rejected	No recovery
1877 1887 1897 1897 1898 1898 1898 1898 1898 1897	1-R7	448375.36	5422312.98	739	48.8	13:57:11	10/21/2013	5TH	Rejected	No recovery
1872	1-R7	448365.7	5422297.3	739	48.5	14:02:41	10/21/2013	6TH	Rejected	No recovery
1886									Rejected	
1888										· ·
1889										· ·
1809 445981.6 542111.0 777 12.0 2.515 1072/2013 N7 8pected No recovery										
1809 445907.4 5211125.5 377 22 93.00 10072/0018 NO Regetted No recovery										
1889 444991.03 5421107.7 777 22.8 9.934-08 1072/2013 571 8.94-08 8.9									_	,
1896 445992.50 542113.10 777 778 738 938.00 1032/2001 511 80ested No recovery										·
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1899 1499867 5021133 16 772 32.4 9.40.46 1002/2003 Th. Rejected No recovery										·
1890 445998.87 5421128.68 737 33.6 396.92 100/22/031 Fill Rejected Nor recovery										,
1889 446931.13 547117.6 737 33.8 346.932 100/22/001.5 171 Rejected No recovery										
1800									_	
1810 46167.26 540993.5 737 29 1407700 1078/2013 ST Rejected Rejected Because of Fast Nove Current									_	,
2816 441099.56 5117275.55 733 9 102407 107237013 ST Rejected 150% cobiles										
581 641095.77 5417784.09 733 9 10255.98 10732/2013 NO. Rejected Sand and grovel Cobbles and small amount of sand Sand Sand Sand Sand Sand Sand Sand Sand									_	·
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281									_	
2-81										
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282			J 110133.0	, /32	. 23					
282	12-R7	440356.07	5416802 61	727	25				_	
2-82 440366.96 \$416787.61 732 24 13.0216 10/23/2013 GTH Rejected Rock 2-82 440343.7 \$416886.06 732 20 131327 10/23/2013 GTH Rejected Zrocks 2-82 440343.7 \$416886.06 732 20 131327 10/23/2013 GTH Rejected Zrocks 2-82 44036.25 \$416812.82 732 21 1316.03 10/23/2013 GTH Rejected Zrocks 2-82 44036.25 \$416812.82 732 21 1316.03 10/23/2013 GTH Rejected Zrocks 2-83 48363.29 \$415157.17 731 15.1 160724 10/23/2013 GTH Rejected						12:56:02	10/23/2013	2ND	Rejected	One cobble
282 440372.43 514828.18 732 30 13:05:09 10/23/2013 GPT Rejected Cobbles and small amount of sand and gravel	2-B2	440370.7	5416773.23	732	23	12:56:02 12:58:33	10/23/2013 10/23/2013	2ND 3RD	Rejected Rejected	One cobble 3 rocks
2-82	2-B2 2-B2	440370.7 440352.53	5416773.23 5416762.59	732 732	23 23	12:56:02 12:58:33 13:00:19	10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH	Rejected Rejected Rejected	One cobble 3 rocks Gravel and cobbles
2-82	2-B2 2-B2 2-B2	440370.7 440352.53 440369.69	5416773.23 5416762.59 5416767.61	732 732 732	23 23 24	12:56:02 12:58:33 13:00:19 13:02:16	10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH	Rejected Rejected Rejected Rejected	One cobble 3 rocks Gravel and cobbles Rock
2-82 440389.25 5416812.82 732 21 13:1633 10/23/2013 DTH ACCEPTED 2-83 438642.42 5415113.59 731 15.1 16:072.4 10/23/2013 DTH Rejected No recovery 2-83 438642.42 5415113.59 731 18.7 13:53.48 10/23/2013 IST Rejected No recovery 2-84 438653.25 5415083.72 7211 17.9 13:54.59 10/23/2013 DRD Rejected Cobbles 2-83 438632.5 5415083.72 7311 18.4 13:54.64 10/23/2013 DRD Rejected Cobbles 2-84 438633.2 5415140.49 7311 28.4 13:55.46 10/23/2013 DRD Rejected Cobbles 2-83 438633.2 5415140.49 7311 18.4 13:59.34 10/23/2013 DRD Rejected Cobbles 2-83 438631.37 5415142.18 7311 18.4 13:59.34 10/23/2013 DRD Rejected REJECT ROCKLAW, cobbles 2-83 438651.67 541513.54 7311 17.7 16:01.24 10/23/2013 DRD Rejected REJECT ROCKLAW, cobbles 2-83 438651.66 541513.54 7313 17.7 16:01.24 10/23/2013 DRD Rejected REJECT ROCKLAW, one cobble REJECT ROCKLAW, one c	2-B2 2-B2 2-B2 2-B2	440370.7 440352.53 440369.69 440372.43	5416773.23 5416762.59 5416767.61 5416828.18	732 732 732 732	23 23 24 30	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH	Rejected Rejected Rejected Rejected Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel
2-83 438642-42 5415113-59 731 19.1 13-52-04 10/23/2013	2-B2 2-B2 2-B2 2-B2 2-B2	440370.7 440352.53 440369.69 440372.43 440343.7	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06	732 732 732 732 732	23 23 24 30 20	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH	Rejected Rejected Rejected Rejected Rejected Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks
2-83 438637.42 5415102.53 731 17.9 135.458 10/23/2013 ATH Rejected Rej	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2	440370.7 440352.53 440369.69 440372.43 440343.7 440350.1	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06 5416807.62	732 732 732 732 732 732	23 23 24 30 20 19	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:15:05	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH	Rejected Rejected Rejected Rejected Rejected Rejected Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks
283	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B2	440370.7 440352.53 440369.69 440372.43 440343.7 440350.1 440369.25	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06 5416807.62 5416812.82	732 732 732 732 732 732 732	23 23 24 30 20 19	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:15:05 13:16:33	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH	Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks
2-83	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440343.7 440350.1 440369.25 438639.29 438642.42	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06 5416807.62 5416812.82 5415157.1	732 732 732 732 732 732 732 731 731	23 23 24 30 20 19 21 15.1 19.1	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:15:05 13:16:33 14:07:24 13:52:04	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH	Rejected ACCEPTED Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles
198	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440343.7 440350.1 440369.25 438639.29 438642.42 438637.42	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06 5416807.62 5416812.82 5415157.1 5415113.59	732 732 732 732 732 732 732 731 731	23 24 30 20 19 21 15.1 19.1	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:15:05 13:16:33 14:07:24 13:52:04 13:53:48	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 1ST 2ND	Rejected ACCEPTED Rejected Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery
2-83 438604.16 5415142.1E 731 18.4 31:59:34 10/23/2013 GTH Rejected GRAB DID NOT CLOSE	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440343.7 440350.1 440369.25 438639.29 438642.42 438637.42	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06 5416807.62 541513.59 541513.59 541513.59	732 732 732 732 732 732 732 731 731 731	23 23 24 30 20 19 21 15.1 19.1 18.7	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:15:05 13:16:33 14:07:24 13:52:04 13:53:48	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 1ST 2ND 3RD	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery Cobbles
2-83 438615.06 5415135.4 731 1.77 14.01.24 10/23/2013 3TH Rejected GRAB DID NOT CLOSE	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440343.7 440350.1 440369.25 438639.29 438642.42 438637.42 438637.42	5416773.23 5416762.59 5416767.61 5416828.18 5416807.62 5416812.82 5415157.1 5415113.59 5415102.53 5415083.72 5415140.49	732 732 732 732 732 732 732 731 731 731 731	23 23 24 30 20 19 21 15.1 19.1 18.7 17.9	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:16:33 14:07:24 13:52:04 13:53:48 13:54:59 13:56:48	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 1ST 2ND 3RD 4TH	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery Cobbles REJECT ROCKJAW, cobbles
2-83	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440350.1 440350.1 440369.25 438639.29 438642.42 438637.42 438637.42 438633.2 438633.2	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06 5416807.62 5415157.1 5415113.59 5415102.53 5415104.49 5415142.79	732 732 732 732 732 732 732 731 731 731 731 731 731	23 24 30 20 19 21 15.1 19.1 18.7 17.9 24.5	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:15:05 13:16:33 14:07:24 13:53:48 13:54:59 13:56:48	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 1ST 2ND 3RD 4TH 5TH	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery Cobbles REJECT ROCKJAW, cobbles Cobbles
2-83 438619.36 5415139.06 731 17.5 14-05:32 10/23/2013 9TH Rejected Cobbies 2-84 43817.07 5414345.96 730 44 13.03:14 10/17/2013 IST Rejected Failed \$ & 6, water 2-84 43815.87 541439.00 730 41 13:14:25 10/17/2013 BND Rejected Failed \$ & 6, cobble 2-84 43811.09 5414300 730 41 13:14:25 10/17/2013 BND Rejected Failed \$ & 6, cobble 2-84 43811.49 5414288.66 730 40 13:24:00 10/17/2013 STH Rejected Failed \$ & 6, gravel & cobbles 2-84 438178.43 5414299.1 730 41 13:28:39 10/17/2013 STH Rejected Failed \$ & 6, gravel & cobbles 2-84 438178.13 5414296.7 730 41 13:35:20 10/17/2013 STH Rejected Failed \$ & 6, gravel & cobbles 2-84 43816.15 5414296.7 730 <td>2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3</td> <td>440370.7 440352.53 440369.69 440372.43 440343.7 440350.1 440369.25 438639.29 438642.42 438637.42 438625.05 438633.2 438618.37 438604.14</td> <td>5416773.23 5416762.59 5416762.61 5416828.18 5416806.06 5416807.62 5415157.1 5415173.59 5415102.53 5415104.39 5415140.49 5415140.49</td> <td>732 732 732 732 732 732 732 731 731 731 731 731 731 731</td> <td>23 23 24 30 20 19 21 15.1. 19.1. 18.7 17.9 24.5 19.8 18.4</td> <td>12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:15:05 13:16:33 14:07:24 13:52:04 13:53:48 13:54:59 13:56:48 13:59:34</td> <td>10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013</td> <td>2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 1ST 2ND 3RD 4TH 5TH 5TH 6TH</td> <td>Rejected Rejected Rejected</td> <td>One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery Cobbles REJECT ROCKJAW, cobbles Cobbles REJECT ROCKJAW, one cobble</td>	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440343.7 440350.1 440369.25 438639.29 438642.42 438637.42 438625.05 438633.2 438618.37 438604.14	5416773.23 5416762.59 5416762.61 5416828.18 5416806.06 5416807.62 5415157.1 5415173.59 5415102.53 5415104.39 5415140.49 5415140.49	732 732 732 732 732 732 732 731 731 731 731 731 731 731	23 23 24 30 20 19 21 15.1. 19.1. 18.7 17.9 24.5 19.8 18.4	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:15:05 13:16:33 14:07:24 13:52:04 13:53:48 13:54:59 13:56:48 13:59:34	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 1ST 2ND 3RD 4TH 5TH 5TH 6TH	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery Cobbles REJECT ROCKJAW, cobbles Cobbles REJECT ROCKJAW, one cobble
2-84 438170.47 5414334.19 730 45 13:09:20 10/17/2013 IST Rejected Failed 5 & 6, water 2-84 438158.74 5414334.19 730 45 13:09:20 10/17/2013 IST Rejected Failed 5 & 6, water 2-84 438174.09 5414320.49 730 41 13:42:5 10/17/2013 ATH Rejected Failed 5 & 6, crob Failed 5 & 6, orok 2-84 438134.99 5414320.49 730 41 13:24:50 10/17/2013 ATH Rejected Failed 5 & 6, gravel & cobbles 2-84 438178.43 541428.66 730 40 13:24:50 10/17/2013 ATH Rejected Failed 5 & 6, gravel & cobbles 2-84 438178.43 541429.71 730 41 13:28:39 10/17/2013 TH Rejected Failed 5 & 6, gravel & cobbles 2-84 438170.2 5414312.04 730 41 13:32:20 10/17/2013 TH Rejected Failed 5 & 6, gravel & cobbles 2-84 438170.2 5414312.04 730 41 13:32:20 10/17/2013 TH Rejected Failed 5 & 6, gravel & cobbles 2-84 438170.2 5414329.74 730 40 13:35:19 10/17/2013 TH Rejected Failed 5 & 6, gravel & cobbles 2-85 43868.02 5413705.77 729 NR 11:02:00 10/17/2013 IST Rejected Failed 5 & 6, gravel & cobbles & sand 2-86 43654.10 5413858.71.2 729 NR 11:02:00 10/17/2013 IST Rejected REJECTED FOR SAFETY AND EQUIPMENT CONCERNS 2-86 43654.10 5413858.71.2 729 NR 11:02:00 10/17/2013 IST Rejected REJECTED FOR SAFETY AND EQUIPMENT CONCERNS 2-86 43684.0 541384.3 4515464.88 731 15.4 9:07:28 10/19/2013 IST ACCEPTED Accepted, 3" 2-C1 439811.66 5415840.67 731 15.4 9:07:28 10/19/2013 IST ACCEPTED Accepted, 3" 2-C1 439810.06 5415843.3 731 15.6 9:15:10 10/19/2013 IST ACCEPTED Accepted, 3" 2-C1 43980.411 5415820.38 731 13.2 9:19:55 10/19/2013 IST ACCEPTED Accepted, 3" 2-C2 43930.32 5415872.84 731 13.2 9:19:55 10/19/2013 IST ACCEPTED ACCEPTED, 7" 2-C2 43930.31 5415822.34 731 13.2 9:19:55 10/19/2013 IST ACCEPTED ACCEPTED, 7" 2-C2 43930.32 5415873.87 731 13.2 9:19:55 10/19/2013 IST ACCEPTED ACCEPTED, 7" 2-C2 43930.32 5415873.87 731 13.2 9:14:40:59 10/18/2013 IST ACCEPTED ACCEPTED, 7" 2-C2 43930.39 5415823.34 731 13.2 9:31:46 10/19/2013 IST ACCEPTED ACCEPTED, 7" 2-C2 43930.39 5415893.89 731 3.5 14:45:57 10/18/2013 IST Rejected REJECT ROCKIAW 2-C2 43930.81 5416063.37 731 3.6 14:55:57 10/18/	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440350.1 440369.25 438639.29 438642.42 438637.42 438637.42 438638.37 438641.44 438618.37	5416773.23 5416762.59 5416767.61 5416828.18 5416806.06 5416807.62 5416812.82 5415157.1 5415102.53 5415104.49 5415142.79 5415142.18 5415135.4	732 732 732 732 732 732 732 731 731 731 731 731 731 731	23 23 24 30 20 19 21 15.1 19.1 18.7 17.9 24.5 19.8 18.4	12:56:02 12:58:33 13:00:19 13:02:16 13:05:09 13:13:27 13:15:05 13:16:33 14:07:24 13:53:48 13:54:59 13:56:48 13:56:48 13:59:34 14:01:24	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013	2ND 3RD 4TH 5TH 6TH 7TH 9TH 10TH 1ST 2ND 3RD 4TH 5TH 6TH	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery Cobbles REJECT ROCKJAW, cobbles Cobbles REJECT ROCKJAW, one cobble GRAB DID NOT CLOSE
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2-C3 438038.41 5414106.99 730 38.9 13:23:04 10/18/2013 1ST Rejected REJECT, EMPTY	2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3 2-B3	440370.7 440352.53 440352.53 440352.53 440352.53 440352.43 440350.1 440369.25 43863.29 438642.42 438652.05 438633.2 438613.7 438615.06 438628.66 438628.66 438618.37 438638.37 4	\$416773.23 \$416762.59 \$4166762.59 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$4168107.62 \$4168107.62 \$415107.	732 732 732 732 732 732 732 732 731 731 731 731 731 730 730 730 730 730 730 730 730 730 730	23 23 23 24 30 24 30 20 19 21 15.1 19.1 18.7 17.9 24.5 19.8 18.4 17.7 17.8 44 45 41 43 40 41 41 40 41 41 40 41 56 15.6 15.9 13.2 13.9 13.2 5 3.5 2.5 3.5 3.6 4.2	12:56:02 12:58:33 13:02:19 13:02:16 13:05:09 13:13:05:09 13:13:15:05 13:15:05 13:15:05 13:15:05 13:52:04 14:55:05 14:55:05 14:55:05 14:55:05	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/19/2013 10/18/2013 10/18/2013 10/18/2013	2ND 3RD 3RD 4TH 5TH 6TH 7TH 9TH 10TH 15T 2ND 3RD 4TH 15T 2ND 3RD 4TH 15T 15T 15T 2ND 3RD 4TH 15T 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery No recovery Cobbles REJECT ROCKJAW, cobbles Cobbles REJECT ROCKJAW, one cobble GRAB DID NOT CLOSE Cobbles Cobbles Cobbles Cobbles Cobbles Failed 5 & 6, water Failed 5 & 6, coble Failed 5 & 6, gravel & cobbles Failed 6, san & gravel & cobbles Failed 6, san & gravel Accepted, 3" REJECT ROCKJAW Failed 5, san & gravel Accepted, 7" REJECT ROCKJAW
	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440369.69 440372.43 440369.25 43863.29 438642.42 438637.42 438632.43 438632.9 438643.43 438613.61 438619.36	\$416773.23 \$416762.59 \$4166762.59 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$416807.62 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$415103.37 \$416303.67 \$415803.38 \$415821.64 \$415820.38 \$415821.64 \$415820.38 \$415821.64 \$415820.38 \$415821.64 \$415820.38 \$415821.64 \$415803.38 \$415821.64 \$415803.38 \$415821.64 \$415803.38 \$415821.64 \$415803.38 \$415803.38 \$415803.38 \$415803.38 \$415803.38 \$415803.38 \$415803.38 \$41603.64 \$415903.39 \$416035.75 \$416035.75 \$416035.37 \$416053.49	732 732 732 732 732 732 732 732 731 731 731 731 731 730 730 730 730 730 730 730 730 730 730	23 23 24 30 24 30 20 19 21 15.1 19.1 18.7 17.9 24.5 19.8 18.4 17.7 17.8 44 45 41 41 41 41 41 41 41 41 41 41 41 55 15.9 13.2 13.9 13.2 13.9 13.2 5 3.5 3.5 3.5 3.6 4.2	12:56:02 12:58:33 13:02:16 13:03:19 13:02:16 13:05:09 13:13:27 13:15:23 14:07:24 13:53:48 13:54:59 13:53:48 13:54:59 13:53:48 13:54:59 13:53:48 13:54:59 13:53:48 13:54:59 13:53:48 13:54:59 13:53:48 13:54:59 13:53:48 13:54:59 13:52:20 13:14:25 13:19:56 13:24:00 13:24:20 13:24:20 13:25:20 13:	10/23/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/19/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 3RD 4TH 15T 2ND 3RD 4TH 15T 2ND 3RD 4TH 15T 2ND 3RD 4TH 15T	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery No recovery Cobbles REJECT ROCKJAW, cobbles Cobbles REJECT ROCKJAW, one cobble GRAB DID NOT CLOSE Cobbles Cobbles Failed 5 & 6, water Failed 5 & 6, oater Failed 5 & 6, cobbles Failed 5 & 6, gravel & cobbles Failed 5 & 6, fock Failed 5 & 6, gravel & cobbles Failed 5 & 6, fock Failed 5 & 6, gravel & cobbles Failed 6, 6, gravel & cobbles Failed 6, 6, gravel & cobbles Failed 6, san & gravel & cobbles Failed 7 & 6, one cobble Failed 6, san & gravel & cobbles Failed 6, san & gravel & co
2-C3 438017.84 5414086.17 730 43.4 13:25:45 10/18/2013 2ND Rejected REJECT, EMPTY	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440352.53 440352.53 440352.53 440352.53 440352.43 440345.1 440369.25 438639.29 438642.42 438653.2 438633.2 438633.2 438633.2 438633.2 438615.06 438615.06 438615.06 438615.06 438615.06 438615.06 438615.06 438615.06 438610.06 438610.06 438610.06 438170.47 438158.74 438174.04 438	\$416773.23 \$416762.59 \$4166762.59 \$4166762.59 \$4166762.59 \$416628.18 \$416806.06 \$416807.62 \$416807.62 \$4168173.59 \$415113.59 \$415113.59 \$415113.59 \$415142.18 \$415142.18 \$415142.18 \$415142.18 \$415143.15 \$415143.15 \$415143.15 \$415143.19 \$414431.20 \$414431.20 \$414431.20 \$414431.20 \$414431.20 \$414431.20 \$414431.20 \$41458.66 \$414438.31 \$41582.38	732 732 732 732 732 732 732 732 731 731 731 731 731 730 730 730 730 730 730 730 730 730 730	23 23 23 24 30 20 19 21 15.1 19.1 18.7 17.9 24.5 19.8 18.4 17.7 17.8 17.5 44 45 41 41 43 40 41 41 41 40 41 41 55 15.6 15.9 13.2 13.9 13.2 5 2.5 2.5 3.5 3.6 4.2 4.3	12:56:02 12:58:33 13:02:19 13:02:16 13:05:09 13:13:27 13:16:33 14:07:24 13:53:48 13:54:59 13:56:48 13:54:59 13:56:48 13:59:34 14:01:24 14:03:32 14:03:32 14:03:32 13:03:14 14:03:32 13:03:14 13:09:20 13:10:20 13:	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013	2ND 3RD 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 3RD 4TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery No recovery Rocks Gravel and cobbles REJECT ROCKJAW, cobbles Cobbles REJECT ROCKJAW, one cobble GRAB DID NOT CLOSE Cobbles Cobbles REJECT ROCKJAW, one cobble GRAB DID NOT CLOSE Cobbles Failed 5 & 6, water Failed 5 & 6, water Failed 5 & 6, one cobble Failed 5 & 6, gravel & cobbles Failed 5 & 6, one cobble Failed 5 & 6, one cobble Failed 6, san & gravel REJECTED FOR SAFETY AND EQUIPMENT CONCERNS REJECTED FOR SAFETY AND EQUIPMENT CONCERNS Accepted, 3" REJECT ROCKJAW
	2-B2 2-B2 2-B2 2-B2 2-B2 2-B2 2-B3 2-B3	440370.7 440352.53 440352.53 440352.53 440352.53 440352.53 4340352.53 4340352.54 43863.29 438642.42 438632.24 438653.24 43865.05 438633.2 438613.7 438613.7 438613.7 438613.6 438613.7 438613.7 438613.6 43863.6 43	\$416773.23 \$416762.59 \$4166762.59 \$4166762.59 \$4166762.59 \$416628.18 \$416806.06 \$416807.62 \$416807.62 \$416817.53 \$415113.59 \$415142.79 \$415142.79 \$415142.79 \$415142.79 \$415143.18 \$415143.18 \$415143.14 \$415143.18 \$41430.09 \$414428.46 \$41428.46 \$41428.46 \$41430.09 \$414430.09 \$414430.09 \$414430.09 \$414430.09 \$414430.09 \$414430.09 \$414430.09 \$414430.09 \$414430.09 \$414430.09 \$41603.79 \$41603.79 \$41603.79 \$41605.39 \$416053.39 \$416053.39 \$416053.39 \$416053.39 \$416053.39 \$416053.39 \$416053.39 \$41605.39	732 732 732 732 732 732 732 732 731 731 731 731 731 730 730 730 730 730 730 730 730 730 730	23 23 23 24 30 24 30 20 19 21 15.1 19.1 18.7 17.9 24.5 19.8 18.4 17.7 17.8 44 45 41 43 40 41 41 40 41 41 40 41 55.6 15.9 13.2 5 3.5 2.5 3.5 3.6 4.2 4.3 3.8,9	12:56:02 12:58:33 13:00:19 13:00:19 13:00:19 13:00:09 13:13:05:09 13:13:05:09 13:15:05 13:15:05 13:15:05 13:55:48 13:55:49 13:56:48 13:59:34 14:01:24 14:03:22 13:03:14 13:09:20 13:19:56 13:24:00 13:28:39 13:35:19 13:40:09 11:02:00 9:07:28 9:13:06 9:15:10 9:17:45 9:19:55 9:19:55 9:28:54 9:31:46 14:47:12 14:48:37 14:51:14 14:55:07 14:55:58 14:55:12 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45 15:01:45	10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/23/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/19/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013 10/18/2013	2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 10TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T	Rejected	One cobble 3 rocks Gravel and cobbles Rock Cobbles and small amount of sand and gravel 2 rocks Gravel and cobbles No recovery No recovery No recovery Cobbles REJECT ROCKJAW, cobbles Cobbles REJECT ROCKJAW, one cobble GRAB DID NOT CLOSE Cobbles Cobbles REJECT ROCKJAW, one cobble GRAB DID NOT CLOSE Cobbles Failed 5 & 6, water Failed 5 & 6, cote Failed 5 & 6, gravel & cobbles Failed 5 & 6, souter Failed 5 & 6, souter Failed 5 & 6, one cobble Failed 5 & 6, one cobble Failed 5 & 6, gravel & cobbles Failed 5 & 6, gravel & cobbles Failed 5 & 6, souter REJECTE FOR SAFETY AND EQUIPMENT CONCERNS REJECTE FOR SAFETY AND EQUIPMENT CONCERNS REJECT FOR CKJAW Failed 5 & 6, one cobble Failed 6, san & gravel Accepted, 3" REJECT ROCKJAW

2-C3	438063.06	5414061.78	730	45.4	13:29:24	10/18/2013		Rejected	REJECT, EMPTY
2-C3	438060.78	5414095.62	730	44.2	13:32:18	10/18/2013	4TH	Rejected	REJECT, EMPTY
2-C3	438041.21	5414139.23	730	36.2	13:35:36	10/18/2013	5TH	Rejected	REJECT ROCKJAW
2-C3	438084.76	5414133.25	730	41.4	13:39:15	10/18/2013	6TH	Rejected	REJECT ROCKJAW
2-C3	438103.61	5414108.68	730	44.8	13:42:14	10/18/2013	7TH	Rejected	REJECT, EMPTY
2-C3	438095.66	5414079.93	730	47.4	13:45:38	10/18/2013		Rejected	REJECT, EMPTY
2-C3	438033.5	5414061.91	730	48.4	13:48:17	10/18/2013		Rejected	REJECT ROCKJAW
2-C4	437653.57	5414120.32	730	48.4	11:41:25	10/18/2013		Rejected	REJECT ROCKJAW
2-C4	437633.8	5414086.41	730	57.9	11:45:34	10/18/2013		Rejected	REJECT COBBLES
2-C4	437638.12	5414089.23	730	58.3	11:49:16	10/18/2013		Rejected	REJECT ROCKJAW
2-C4 2-C4		5414084.52	730	59.4		10/18/2013			
	437661.9				11:53:36			Rejected	REJECT, EMPTY
2-C4	437675.99	5414148.38	730	28.6	11:57:17	10/18/2013		Rejected	REJECT ROCKJAW
2-C4	437690.54	5414141.09	730	37.2	12:00:53	10/18/2013		Rejected	REJECT ROCKJAW
2-C4	437670.1	5414136.66	730	34.5	12:04:39		7TH	Rejected	REJECT ROCKJAW
2-C4	437659.23	5414127.41	730	38.7	12:07:16	10/18/2013		Rejected	REJECT ROCKJAW
2-C4	437627.4	5414117.43	730	41.8	12:09:08	10/18/2013		Rejected	REJECT ROCKJAW
2-R1	441059.61	5417084.4	732	22	8:42:15	10/23/2013		ACCEPTED	ACCEPTED; MORE VOLUME NEEDED
2-R1	441084.31	5417091.21	732	18	8:55:19	10/23/2013	2ND	Rejected	Gravel and trace sand
2-R1	441060.35	5417084.69	732	21	8:57:11	10/23/2013	3RD	ACCEPTED	
2-R2	440517.73	5417292.59	732	5	14:27:59	10/17/2013	1ST	Rejected	Failed 5 & 6, cobble
2-R2	440524.45	5417268.91	732	4.4	14:32:06	10/17/2013	2ND	Rejected	Failed 5 & 6, vegetation & water
2-R2	440565.05	5417338.75	732	17	14:34:56	10/17/2013	3RD	Rejected	Failed 5 & 6, cobble
2-R2	440556.48	5417321.93	732	17	14:37:07		4TH	Rejected	Failed 5 & 6, cobble
2-R2	440537.56	5417325.8	732	12	14:38:41	10/17/2013		Rejected	Failed 5 & 6, cobble
2-R2	NR	NR	732	10	14:40	10/17/2013		Rejected	Failed 5 & 6, cobble & gravel
2-R2 2-R2	440566.69	5417302.73	732	12	14:47:01	10/17/2013		Rejected	Failed 5 & 6, cobble
	440589.93			9	14:47:01				Failed 5 & 6, cobble & gravel
2-R2		5417318.33	732			10/17/2013		Rejected	i
2-R2	440562.49	5417304.88	732	11	14:53:28	10/17/2013		Rejected	Failed 5 & 6, cobble
2-R3	440013.46	5416670.2	732	9	11:04:24		1ST	ACCEPTED	ACCEPTED; MORE VOLUME NEEDED
2-R3	439999.85	5416664.29	732	5	11:24:39	10/18/2013		ACCEPTED	Accepted
2-R4	439386.05	5415631.22	731	38	15:18:17	10/17/2013		Rejected	Failed 5 & 6, cobbles
2-R4	439355.37	5415600.82	731	39	15:21:07		2ND	Rejected	Failed 5 & 6, gravel
2-R4	439361.36	5415615	731	40	15:24:32	10/17/2013	3RD	Rejected	Failed 5 & 6, cobbles
2-R4	439375.62	5415641.45	731	40	15:28:47	10/17/2013	4TH	Rejected	Failed 5 & 6, cobbles
2-R4	439367.43	5415609.91	731	37	15:31:11	10/17/2013	5TH	Rejected	Failed 5 & 6, cobbles, insects
2-R4	439355.23	5415646	731	44	15:34:52	10/17/2013		Rejected	Failed 5 & 6, cobbles
2-R4	439352.72	5415611.63	731	43	15:37:45	10/17/2013		Rejected	Failed 5 & 6, cobbles
2-R4	439365.66	5415635.87	731	43	15:40:47		8TH	Rejected	Failed 5 & 6, water
2-R4	439349.58	5415607.34	731	43	15:43:28	10/17/2013		Rejected	Failed 5 & 6
2-R5	438812.77	5415702.59	731	8.1	10:14:05	10/18/2013		Rejected	REJECT ROCKJAW
2-R5	438778.5	5415671.48	731	8	10:15:58		2ND	Rejected	REJECT ROCKJAW
2-R5	438810.47	5415664.33	731	8.2	10:18:37	10/18/2013		Rejected	REJECT ROCKJAW
2-R5	438828.49	5415694.27	731	8.4	10:21:03		4TH	Rejected	REJECT ROCKJAW
2-R5	438814.31	5415734.51	731	11.4	10:23:27	10/18/2013	5TH	Rejected	REJECT ROCKJAW
2-R5	438761.25	5415711.88	731	8.8	10:25:34	10/18/2013	6TH	Rejected	REJECT ROCKJAW
2-R5	438764.42	5415677.11	731	8.5	10:28:00	10/18/2013	7TH	Rejected	REJECT ROCKJAW
2-R5	438770.75	5415695.74	731	9.2	10:30:11	10/18/2013	8TH	Rejected	REJECT ROCKJAW
2-R5	438784.52	5415735.44	731	9.8	10:32:30	10/18/2013	9TH	Rejected	REJECT ROCKJAW
2-R6	438907.18	5415216.86	731	51	10:10:19	10/18/2013	1ST	Rejected	REJECT, Gravel & Cobbles
2-R6	438882.6	5415203.4	731	51	10:15:35	10/18/2013		Rejected	Failed 5 & 6, water
2-R6	438914.8	5415208.73	731	52	10:19:52	10/18/2013		Rejected	Failed 5 & 6, gravel & cobbles
2-R6	438923.18	5415206.32	731	52	10:24:02	10/18/2013		Rejected	Failed 5 & 6, water
2-R6	438914.51	5415190.49	731	51	10:27:13	10/18/2013		Rejected	Failed 5 & 6, large cobble in grab
2-R6	438914.31	5415231.31	731	50	10:32:43	10/18/2013		Rejected	Failed 5 & 6, gravel & cobbles
2-R6	438925.99	5415217.25	731	51	10:36:44		7TH	Rejected	Failed 5 & 6, cobbles
2-R6	438946.03	5415196.39	731	46	10:40:10	10/18/2013		Rejected	Failed 5 & 6, cobbles
2-R6	438951.12	5415210.02	731	50	10:43:46		9TH	Rejected	Failed 5 & 6, cobbles
2-R7	438398.81	5414825.99	730	23.4	14:51:55	10/17/2013		Rejected	REJECT, EMPTY
2-R7	438403.4	5414828.89	730	21.3	14:54:15		2ND	Rejected	REJECT, EMPTY
2-R7	438398.14	5414810.2	730	23.4	14:56:58	10/17/2013		Rejected	REJECT, EMPTY
2-R7	438396.39	5414798.25	730	24.5	14:59:22	10/17/2013	4TH	Rejected	REJECT ROCKJAW, EMPTY
2-R7	438415.24		730	24	15:01:22	10/17/2013		Rejected	REJECT, EMPTY
2-R7	438360.64	5414773.25	730	16.5	15:04:19	10/17/2013		Rejected	REJECT EMPTY, COBBLES
2-R7	438395.51	5414753.16	730	25.5	15:07:42	10/17/2013		Rejected	REJECT COBBLES ROCKJAW
2-R7	438365.29	5414817.6	730	13.7	15:12:06	10/17/2013		Rejected	REJECT EMPTY, COBBLES
2-R7	438380.32	5414813.81	730	20.4	15:14:16	10/17/2013		Rejected	REJECT EMPTY, COBBLES
2-R9	437164.96		729	92	9:12:07	10/15/2013		Rejected	Failed 5 & 6, water
2-R9	437120.99	5413844.4	729	89	9:18:44	10/15/2013		Rejected	Did not close
2-R9 2-R9	437126.53	5413844.4	729	85	9:18:44	10/15/2013		Rejected	Failed 5 & 6, water
2-R9	437129.36	5413830.98	729 729	89 89	9:31:17 9:37:32	10/15/2013		Rejected	Did not close
2-R9	437126.83	5413837.83				10/15/2013		Rejected	Failed 5 & 6, cobbles
2-R9	437141.07		729	88	9:43:45	10/15/2013		Rejected	Failed 5 & 6, only water
2-R9	437133.83	5413831.37	729	89	9:50:06	10/15/2013		Rejected	Failed 5 & 6, gravel & cobbles
2-R9	437114.3	5413819.37	729	87	9:56:36	10/15/2013		Rejected	Failed 5 & 6, gravel & cobbles
2-R9	437095.3	5413808.71	729	88	10:03:12	10/15/2013		Rejected	Failed 5 & 6, only water
2-R10	436519.1	5413693.48	729	98	10:28:35	10/15/2013		Rejected	Failed 5, only water, grab got suck on bottom
3-B1	432407.66	5410566.98	725	82	14:12:13	10/16/2013	1ST	Rejected	Failed 5 & 6
3-B1	432380.87	5410515.13	725	26	14:18:11	10/16/2013		Rejected	Failed 5 & 6, sand & gravel
3-B1	432405.54		725	76	14:25:47	10/16/2013		Rejected	Failed 5 & 6, rock
3-B1	432411.58	5410516.3	725	70	14:30:30	10/16/2013		Rejected	Failed 5 & 6, water
3-B1	432393.37		725	85	14:35:16	10/16/2013		Rejected	Failed 5 & 6, rock
3-B1	432383.16	5410546.65	725	82	14:39:44	10/16/2013		Rejected	Failed 5 & 6, cobble
3-B1	432369.58		725	77	14:44:06	10/16/2013			
								Rejected	Failed 5 & 6, sand
3-B1	432378.49	5410513.4	725	78	14:54:14	10/16/2013		Rejected	Failed 5 & 6, water
3-B1	432410.82		725	71	14:58:51	10/16/2013		Rejected	Failed 5 & 6, gravel & trace sand
3-B2	432199.29	5408532.96	724	62	12:47:46	10/16/2013		Rejected	Failed 5 & 6, cobble
3-B2	432214.37	5408512.17	724	61	12:53:55	10/16/2013		Rejected	Failed 5 & 6, cobbles & trace sand
3-B2	432175.93		724	63	13:01:32	10/16/2013		Rejected	Failed 5 & 6, only water
3-B2	432162.83	5408516.5	724	61	13:05:18	10/16/2013	4TH	Rejected	Failed 5 & 6, only water
3-B2	432189.93	5408495.51	724	62	13:09:23	10/16/2013	5TH	Rejected	Failed 5 & 6, only water
3-B2	432222.44	5408535.36	724	64	13:13:50	10/16/2013	6TH	Rejected	Failed 5 & 6, gravel & cobbles
3-B2	432227.71	5408515.61	724	63	13:17:50	10/16/2013		Rejected	Failed 5 & 6, only water
3-B2	432183.16		724	61	13:24:05	10/16/2013		Rejected	Failed 5 & 6, sand
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3-B2	432176.99	5408494.7	724	60	13:34:52	10/16/2013		Rejected	Failed 5 & 6, only water
3-B3	431654.23	5408570.5	724	12	10:05:58		10TH	ACCEPTED	ACCEPTED; MORE VOLUME NEEDED
3-B3	431656.13	5408568.9	724	12	10:19:51	10/16/2013		ACCEPTED	Accepted
3-B3	431668.77	5408594.46	724	12	9:12:30		1ST	ACCEPTED	ACCEPTED; MORE VOLUME NEEDED
3-B3	431651.29	5408615.61	724	11	9:32:11		2ND	Rejected	Failed 5 & 6
3-B3	431652.54	5408595.56	724	11	9:35:19			Rejected	Failed 5 & 6, only water
3-B3	431661.18	5408583.21	724 724	12 12	9:40:22 9:43:36	10/16/2013 10/16/2013	4TH 5TH	Rejected	Failed 6, cobbles & vegetation ACCEPTED; MORE VOLUME NEEDED
3-B3	431658.27	5408581.95						ACCEPTED	
3-B3 3-B3	431664.99 431661.56	5408568.42 5408561.56	724 724	14 15	9:56:35 9:58:21	10/16/2013 10/16/2013	6TH 7TH	Rejected Rejected	Failed 5 & 6, cobble in grab
3-B3	431648.62	5408594.21	724	15	9:58:21	10/16/2013		Rejected Rejected	Failed 5 & 6, cobble & gravel
3-B3	431648.62	5408594.21	724	12	10:01:12	10/16/2013		Rejected	Failed 5 & 6, vegetation Failed 5 & 6, vegetation & gravel
3-B3 3-B4	431640.97	5408577.91	724	48	13:54:26	10/16/2013	1ST	Rejected Rejected	Failed 5 & 6, vegetation & gravel Failed 5 & 6, gravel & cobbles, did not completely close
3-B4 3-B4	431048.45	5407532.68	723	52	13:54:26	10/14/2013	2ND	Rejected	Failed 5 & 6, gravel & cobbles, did not completely close Failed 5 & 6, coarse gravel & cobbles
3-B4	431059.39	5407487.57	723	54	14:04:11	10/14/2013	3RD	Rejected	Failed 5 & 6, gravel & cobbles
3-B4	431039.39	5407475.03	723	53	14:04:11	10/14/2013		Rejected	Failed 5 & 6, rocks, gravel & cobbles
3-B4	431066.88	5407463.14	723	56	14:12:23	10/14/2013		Rejected	Failed 5
3-B4	431097.26	5407487.19	723	56	14:21:09		6TH	Rejected	Failed 5 & 6, cobbles
3-B4	431065.17	5407473.27	723	55	14:24:20	10/14/2013		Rejected	Failed 5 & 6
3-B4	431060.4	5407466.68	723	55	14:27:42		8TH	Rejected	Failed 5 & 6, two rocks
3-B4	431058.7	5407457.9	723	55	14:31:10	10/14/2013	9TH	Rejected	Failed 5 & 6
3-B5	430504.74	5407074.21	723	65	9:47:23		1ST	Rejected	Did not close
3-B5	430509.46	5407043.77	723	63	9:53:41	10/14/2013	2ND	Rejected	Failed 5, cobbles
3-B5	430544.88	5407056.13	723	63	10:00:54	10/14/2013	3RD	Rejected	Did not close
3-B5	430506.7	5407051.76	723	64	10:06:26	10/14/2013		Rejected	Failed 5, cobbles & trace sand
3-B5	430523.81	5407038.35	723	63	10:15:14	10/14/2013		Rejected	Failed 5 & 6, cobbles
3-B5	430471.3	5407045.06	723	63	10:20:59	10/14/2013		Rejected	Failed 5, rocks
3-B5	430485.98	5407053.55	723	67	10:27:29	10/14/2013		Rejected	Failed 5 & 6
3-B5	430499.42	5407064.49	723	66	10:33:27		8TH	Rejected	Failed 5 & 6, cobbles & gravel
3-B5	430490.9	5407067.86	723	66	10:38:42	10/14/2013		Rejected	Failed 5 & 6, one rock
3-B6	429286.44	5407494.73	722	36	14:02:50		1ST	Rejected	Failed 5 & 6, only water
3-B6	429265.7	5407467.2	722	21	14:09:53	10/15/2013	2ND	Rejected	Failed 5 & 6, only water
3-B6	429239.64	5407459.26	722	51	14:12:29	10/15/2013		Rejected	Failed 5 & 6, only water
3-B6	429232.3	5407484.34	722	64	14:15:58		4TH	Rejected	Failed 5, only water
3-B6 3-B6	429300.32 429294.31	5407483.09 5407463.53	722 722	31 36	14:19:35 14:22:04	10/15/2013 10/15/2013		Rejected Rejected	Failed 5 & 6, only water
3-B6	429294.31	5407463.53	722	58	14:22:04	10/15/2013	7TH	Rejected	Failed 5 & 6, only water Failed 5 & 6, one boulder
3-B6	429229.77	5407477.94	722	63	14:31:53	10/15/2013	8TH	Rejected	Failed 5 & 6, only water
3-B6	429229.77	5407477.94	722	38	14:31:53			Rejected	Failed 5 & 6, only water
3-B6	431403.27	5407465.18	722	5.5	14:35:15	10/15/2013		Rejected	REJECT WASHOUT, Failed 6
3-C1	431411.37	5407940.87	724	6.1	14:10:00	10/15/2013	2ND	ACCEPTED	ACCEPT, 12"
3-C2	431983.2	5407757.77	724	71	12:44:27	10/15/2013		Rejected	REJECT EMPTY
3-C2	432033.55	5407767.19	724	71.2	12:53:24	10/15/2013		Rejected	REJECT COBBLES
3-C2	431997.41	5407802.14	724	61.7	12:57:18	10/15/2013		Rejected	REJECT COBBLE
3-C2	431957.86		724	70.6	13:00:54		4TH	Rejected	REJECT EMPTY
3-C2	431985.57	5407722.71	724	72.3	13:05:59		5TH	Rejected	REJECT COBBLE
3-C2	431977.14	5407741.22	724	75.5	13:10:14		6TH	Rejected	REJECT COBBLES
3-C2	431969.02	5407789.53	724	68.8	13:14:42	10/15/2013	7TH	Rejected	REJECT COBBLES
3-C2	431991.49	5407778.4	724	65.9	13:18:26		8TH	Rejected	REJECT COBBLES
3-C2	432009.68	5407736.61	724	75.8	13:23:51		9TH	Rejected	REJECT EMPTY
3-C3	430239.82	5406972.79	723	47.8	8:50:48	10/15/2013		Rejected	REJECT EMPTY
3-C3	430282.19	5406971.8	723	47.2	8:58:27	10/15/2013		Rejected	REJECT EMPTY
3-C3	430209.03	5406961.21	723	46.1	9:02:51	10/15/2013		Rejected	REJECT EMPTY
3-C3	430257.77	5406928.66	723	47.6	9:07:27	10/15/2013		Rejected	REJECT EMPTY
3-C3	430245.38	5407010.3	723	53.3	9:14:51	10/15/2013	5TH	Rejected	REJECT EMPTY
3-C3	430235.86	5407000.52	723	48	9:18:39	10/15/2013		Rejected	REJECT COBBLE
3-C3	430222.67	5406969.06 5406977.66	723	47.1	9:22:40	10/15/2013	7TH otu	Rejected	REJECT EMPTY
3-C3 3-C3	430245.83 430221.15	5406977.66	723 723	47.8 50.3	9:26:41 9:29:52	10/15/2013 10/15/2013		Rejected Rejected	REJECT EMPTY REJECT 2 ROCKS
3-C3 3-C4	430221.15		723	50.3 91	13:32:48	10/15/2013		Rejected Rejected	Failed 5 & 6
3-C4 3-C4	428015.83		721	101	13:32:48	10/8/2013			Accepted, only 4.5" penetration
3-C4 3-R1	432842.92		721	45	9:22:28	10/8/2013		Rejected	Failed 6, stick in grab caused winnowing
3-R1	432844.82	5411170.17	726	45	9:27:22	10/17/2013		Rejected	Failed 6, stick in grab caused winnowing
3-R1	432822.09		726	45	9:38:44	10/17/2013		ACCEPTED	Accepted
3-R1	432826.14		726	45	9:57:20	10/17/2013		Rejected	Did not close
3-R1	432839.24	5411179.56	726	45	10:00:01	10/17/2013		ACCEPTED	Accepted
3-R2	432023.79		725	39	11:08:33	10/14/2013		Rejected	Failed 5 & 6, cobbles
3-R2	432030.99		725	29	11:11:48	10/14/2013		Rejected	Failed 5, only water
3-R2	431995.14	5409793.8	725	20	11:15:43	10/14/2013		Rejected	Failed 5 & 6, only vegetation
3-R2	431980.46		725	12	11:20:31	10/14/2013		Rejected	REJECTED BUT ONE SCOOP COLLECTED
3-R2	431968.67	5409808.45	725	9	11:28:24	10/14/2013		ACCEPTED	Accepted
3-R2	431977.22	5409798.92	725	9	11:45:40	10/14/2013		ACCEPTED	Accepted
3-R2	431986.53	5409798.19	725	9	11:58:18		7TH	ACCEPTED	Accepted
3-R3	432292.58	5409130.57	725	47.5	10:19:12	10/15/2013		Rejected	REJECT EMPTY
3-R3	432297.08	5409119.46	725	45.6	10:23:43	10/15/2013		Rejected	REJECT COBBLES TRACE OF SAND
3-R3	432294.54		725	45.5	10:27:08	10/15/2013		Rejected	REJECT EMPTY
3-R3	432323.06	5409138.9	725	25.2	10:40:16	10/15/2013		Rejected	REJECT GRAVEL
3-R3	432257.13		725 722	81.2	10:46:14	10/15/2013		ACCEPTED	ACCEPT, 8-10"
3-R5 3-R5	431583.2 431543.95	5407643.81 5407622.28	723 723	55 54	15:11:38 15:14:57	10/14/2013 10/14/2013		Rejected Rejected	Failed 5 & 6, just water Failed 5 & 6, did not close
3-R5	431543.95		723	54 54	15:14:57	10/14/2013		Rejected	Failed 5 & 6, did not close Failed 5, cobbles
3-R5	431573.01	5407647.44	723	54	15:19:15			Rejected	Failed 5 & 6, just water
3-R5	431550.93	5407645.92	723	52	15:22:57	10/14/2013		Rejected	Failed 5 & 6, just water Failed 5 & 6, gravel & cobbles
3-R5	431529.56	5407631.71	723	58	15:25:57	10/14/2013		Rejected	Failed 5 & 6, did not close
3-R5	431558.22		723	56	15:34:11	10/14/2013		Rejected	Failed 5 & 6, cobbles
3-R5	431536.22	5407613.07	723	58	15:39:55	10/14/2013		Rejected	Failed 5 & 6, just water
	431573.41		723	59	15:43:30	10/14/2013		Rejected	Failed 5 & 6, just water
3-R5			723	69	11:06:59	10/15/2013		Rejected	Failed 5 & 6
3-R5 3-R6	430830.15	5407411.25	/25			, ,,====			
		5407411.25 5407397.87	723	65	11:12:03	10/15/2013	2ND	Rejected	Failed 5 & 6
3-R6	430830.15				11:12:03 11:16:28	10/15/2013 10/15/2013		Rejected Rejected	Failed 5 & 6 Failed 5 & 6, small amount of sand & gravel
3-R6 3-R6	430830.15 430835.95	5407397.87	723	65			3RD		
3-R6 3-R6 3-R6	430830.15 430835.95 430802.22	5407397.87 5407383.6	723 723	65 69	11:16:28	10/15/2013	3RD 4TH	Rejected	Failed 5 & 6, small amount of sand & gravel
3-R6 3-R6 3-R6 3-R6	430830.15 430835.95 430802.22 430859.23	5407397.87 5407383.6 5407378.81 5407363.26	723 723 723	65 69 64	11:16:28 11:22:08	10/15/2013 10/15/2013	3RD 4TH 5TH	Rejected Rejected	Failed 5 & 6, small amount of sand & gravel Failed 5, few rocks

3-R6	430836.37	5407398.94	723	64	11:37:01	10/15/2013		Rejected	Failed 5 & 6, one rock
3-R6	430812.19	5407369.55	723	66	11:41:15	10/15/2013		Rejected	Failed 5, one cobble
3-R6	430821.18		723	67	11:45:13	10/15/2013		Rejected	Failed 5, 3 cobbles
3-R7	430303.04	5407156.1	722	70	16:24:06	10/15/2013		Rejected	Failed 5 & 6, rock in grab
3-R7	430303.47	5407158.77	722	71	16:28:22	10/15/2013		ACCEPTED	Accepted
3-R7	430256.7	5407147.63	722	71	15:11:11	10/15/2013		Rejected	Failed 5 & 6, cobbles
3-R7	430290.33	5407139.51	722	73	15:16:11			Rejected	Did not close
3-R7	430254.32	5407138.73	722	73	15:19:17	10/15/2013		Rejected	Did not close
3-R7 3-R7	430283.74 430302.59	5407148.68	722 722	77 74	15:24:42	10/15/2013		ACCEPTED	Accepted
3-R7	430302.59	5407153.75 5407148.77	722	74	15:37:34 15:42:50	10/15/2013		Rejected ACCEPTED	Failed 5 & 6, stick in grab caused sample washout ACCEPTED; MORE VOLUME NEEDED
3-R7	430302.04	5407151.46	722	71	15:42:50	10/15/2013 10/15/2013		ACCEPTED	ACCEPTED; MORE VOLUME NEEDED ACCEPTED; MORE VOLUME NEEDED
3-R7	430302.79	5407151.46	722	71	16:08:02	10/15/2013		Rejected	Failed 5 & 6, large cobble in grab
3-R7	430313.33	5407153.27	722	70	16:12:05		9TH	ACCEPTED	ACCEPTED; MORE VOLUME NEEDED
3-R8	429466.19	5407280.05	722	135	10:12:03	10/13/2013		Rejected	Did not close
3-R8	429457.07	5407274.69	722	134	10:07:36	10/24/2013		Rejected	One rock
3-R8	429447.95	5407280.18	722	130	10:12:54	10/24/2013		Rejected	Gravel with sand, sieved (signs of sediment loss)
3-R8	429434.32	5407274.27	722	135	10:23:00	10/24/2013		Rejected	One rock
3-R8	429441.08	5407278.23	722	133	10:28:14	10/24/2013		Rejected	REJECTED; MATERIAL COLLECTED, grab did not close completely
3-R8	429420.4	5407278.93	722	130	10:53:40	10/24/2013		Rejected	Gravel, signs of sediment loss
3-R8	429436.57	5407272.3	722	131	10:59:57	10/24/2013		Rejected	REJECTED; MATERIAL KEPT
3-R8	429441.52	5407273.24	722	126	11:25:50	10/24/2013		Rejected	One rock
3-R8	429430.21	5407270.24	722	126	11:31:59	10/24/2013		Rejected	100% gravel, signs of sediment loss
3-R9	428420.57	5407795.09	721	79	12:50:57	10/24/2013	1ST	Rejected	One cobble
3-R9	428429.38	5407806.66	721	74	12:54:17	10/24/2013	2ND	Rejected	No recovery
3-R9	428501.95	5407776.48	721	63	12:57:48	10/24/2013	3RD	Rejected	Did not close
3-R9	428506.64	5407821.67	721	44	13:01:42	10/24/2013		ACCEPTED	ACCEPTED; MORE VOLUME NEEDED
3-R9	428470.83	5407835.83	721	41	13:15:52	10/24/2013	5TH	ACCEPTED	
3-R10	427592.32	5407795.12	721	42	12:54:37	10/15/2013		Rejected	Failed 5 & 6, only water
3-R10	427593.54	5407771.77	721	62	12:59:27	10/15/2013		Rejected	Failed 5 & 6, only water
3-R10	427574.87	5407815.82	721	21	13:04:08	10/15/2013		Rejected	Failed 5 & 6, one rock
3-R10	427577.26	5407821.38	721	21	13:06:32			Rejected	Failed 5 & 6, only water
3-R10	427590.55	5407777.68	721	61	13:12:06	10/15/2013		Rejected	Failed 5 & 6, gravel & sand
3-R10	427581.29	5407761.23	721	70	13:18:09	10/15/2013		Rejected	Failed 5 & 6, only water
3-R10	427608.26	5407777.59	721	67	13:24:47	10/15/2013		Rejected	Failed 5 & 6, gravel & sand
3-R10	427590.71	5407757.12	721	70	13:34:29	10/15/2013		Rejected	Failed 5 & 6, only water
3-R10	427553.62	5407757.58	721	69	13:38:06	10/15/2013		Rejected	Failed 5 & 6, only water
4-B1	424499.39	5393516.74	710	83.7	13:18:36			Accepted	Accepted
4-B2	422267.61	5391562.17	708	85	9:59:20	10/5/2013		Rejected	Did not close
4-B2	422297.62	5391550.16	708	87	10:06:59	10/5/2013		Rejected	Acceptable portion of sample was saved for incorporation into next grab
4-B2	422302.77	5391536.94	708	87	10:31:26		3RD	Rejected	Did not close
4-B2	422310	5391552.76	708	88	10:36:57	10/5/2013			Insufficient volume for complete sample, will be composited
4-B2	422268.61	5391545.46	708	87	10:52:15	10/5/2013		ACCEPTED	Accepted
4-B3	420546.15	5391416.47	707	43.2	11:07:06	10/5/2013			ACCEPTED, 10"
4-B3	420542.27	5391421.89	707	43.5	11:21:36	10/5/2013		ACCEPTED	ACCEPTED, 9"
4-B3	420545.89	5391413.31	707	43.3	11:34:44			ACCEPTED	ACCEPTED, 9.5"
4-B3	420552.3	5391414.8	707	43.3	11:47:31	10/5/2013		ACCEPTED	ACCEPTED, 10"
4-B3	420542.67	5391417.95	707	43.2	11:59:50	10/5/2013		ACCEPTED ACCEPTED	ACCEPTED, 10"
4-B4 4-B5	418964.49 418622.79	5390736.08 5389013.18	706 705	81 89	13:38:57 8:35:11	10/5/2013 10/5/2013		ACCEPTED	Accepted, 8" Accepted, 8"
4-B5	423050.51	5391771.71	709	103	8:37:04	10/8/2013		Rejected	REJECTED; GRAB MALFUNCTIONED
4-B6	423049.44	5391762.78	709	99	9:05:18	10/8/2013		Rejected	REJECTED; GRAB MALFUNCTIONED
4-B6	423069.09		709	102	9:19:37	10/8/2013		Rejected	Did not close
4-B6	423102.47	5391739.07	709	89	9:34:05	10/8/2013		ACCEPTED	Accepted
4-C1	424176.92	5392319.97	710	70.4	13:01:04			Rejected	REJECTED COARSE SAND WASHOUT
4-C1	424153.2	5392336.07	710	64.8	13:08:07	10/7/2013		Rejected	REJECT COARSE SAND WASHOUT
4-C1	424163.19	5392309.22	710	69.3	13:26:24		3RD	Rejected	REJECT WASHOUT
4-C1	424123.54	5392317.74	710	65.6	13:36:35	10/7/2013		Rejected	REJECT WASHOUT
4-C1	424136.7	5392319.27	710	67.8	13:51:53	10/7/2013	5TH	Rejected	REJECT WASHOUT
4-C1	424162.35		710	61.4	14:04:34	10/7/2013		Rejected	REJECT ROCKJAW
4-C1		5392338.05	710	64.3	14:11:03	10/7/2013		Rejected	REJECT, Failed 5 & 6
4-C1	424128.61	5392329.93	710	64.9	14:15:59	10/7/2013		Rejected	REJECT, Failed 5 & 6
4-C1	424136	5392324.89	710	65	14:23:03	10/7/2013		Rejected	REJECT, Failed 5 & 6
4-C2	418345.14	5392011.34	707	29	8:56:32	10/7/2013		Rejected	REJECT WOODY DEBRIS
4-C2	418313.68		707	28.4	9:01:17	10/7/2013		Rejected	REJECT WOODY DEBRIS
4-C2	418306.16	5391991.23	707	29.4	9:06:37	10/7/2013		Accepted	Accepted, failed 6
4-C2	418315.15		707	33.3	9:12:36	10/7/2013		Rejected	REJECT WOOD DEBRIS
4-C2	418304.84	5392001.62	707	28.8	9:16:45	10/7/2013		Rejected	REJECT WOOD DEBRIS
4-C2	418348.68		707	27.8	9:20:13	10/7/2013		Rejected	REJECT WOOD DEBRIS
4-C2	418373.93	5392015.08	707	28.7	9:23:12	10/7/2013		Rejected	REJECT WOOD DEBRIS
4-C2	418339.85	5391995.06	707	30.1	9:28:19	10/7/2013		Rejected	REJECT WOOD DEBRIS
4-C2	418344.74		707	28.8	9:31:51	10/7/2013		Rejected	REJECT WOOD DEBRIS
4-C3	419428.3	5390222.61	706	45.3	14:27:07	10/5/2013		ACCEPTED	ACCEPTED, 8"
4-C3	419431.28	5390226.47	706	45.3	14:41:43	10/5/2013		ACCEPTED	ACCEPTED, 9"
4-C4	419067.85	5388803.8	705	52.4	12:30:58	10/4/2013		ACCEPTED	ACCEPTED, 10"
4-C5	420013.1	5387632.83	704	59.8	14:17:15	10/4/2013			ACCEPTED, 12"
4-C6	419940.36	5386150.24	703	45	8:33:00	10/5/2013		ACCEPTED	Accepted
4-C6	419951.48		703	45.1	8:45:15	10/5/2013		ACCEPTED	Accepted
4-C6	419938.66	5386153.53	703	45.4	8:56:37	10/5/2013		ACCEPTED	Accepted
4-R1	424347.66	5394261.73	711	90.5	10:53:30	10/24/2013		Rejected	Highly winnowed
4-R1	424340.05		711	84.8	11:08:43	10/24/2013		ACCEPTED	ACCEPTED 12"
4-R5	419267.52	5391735.7	707	47.2	8:36:12	10/8/2013		ACCEPTED	ACCEPTED, 13"
5-B1	413946.67	5354594.21	678 679	62.4	8:15:22	9/28/2013		ACCEPTED	ACCEPTED, 10"
5-B1	413951.14	5354594.01	678	62.8	8:30:14	9/28/2013		ACCEPTED	ACCEPTED, 10 "
5-B1	413955.14 413959.66		678 678	62.7	8:46:53 8:59:49	9/28/2013 9/28/2013		ACCEPTED ACCEPTED	ACCEPTED, 10.5" ACCEPTED, 11"
5-B1		5354593.55 5354542.05		62.9	10:26:29	9/28/2013			
5-B2 5-B3	413351.4 412691.33	5354542.05	678 678	83 171	10:26:29	9/28/2013		Accepted Accepted	Accepted Accepted, 12"
5-B3 5-B4	412691.33	5354422	677	1/1	13:24:58	9/30/2013			Accepted, 12" Accepted
5-B4 5-B5	413420.5	5352206.64	676	113	9:33:00	9/27/2013		Accepted Rejected	REJECTED; GRAB DID NOT CLOSE
5-B5 5-B5	413936.15	5351704.02	676	106	9:33:00	9/27/2013		ACCEPTED	Accepted
5-B5 5-B6	414416.73	5351687.92	676	106	11:34:22	9/27/2013		Accepted	песериси
5-B6 5-C1	414416.73	5351559.3	680	145	10:35:04	9/30/2013		Accepted	Accepted, 12"
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8-B5 364252.88 5309098.01 608 131 11:06:10 9/20/2013 IST Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364219.35 5309073.8 608 44 11:21:16 9/20/2013 3RD Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364195.96 5309079.73 608 44 11:29:10 9/20/2013 4TH Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364195.96 5309079.73 608 44 11:29:10 9/20/2013 4TH Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364227.68 5309157.16 608 298 12:00:27 9/20/2013 1TH ACCEPTED GOOD GRAB 8-B6 364214.27 5309589.48 607 234 8:24:45 9/20/2013 STD ACCEPTED Some turbidity 8-C1 366175.16 5308872.31 609 283 15:24:19 9/20/2013 STD Rejected REJECTED; DID NOT CLOSE 8-C1 366128.29 53088881.31 609	8-B3	362315.44	5312466.9		198	13:35:43			ACCEPTED	ACCEPTED
8-B5 364219.35 5309073.8 608 44 11:21:16 9/20/2013 2ND Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364231.43 5309069.53 608 28 11:24:21 9/20/2013 3RD Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364195.96 5309079.73 608 44 11:29:10 9/20/2013 4TH Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364227.68 5309157.16 608 298 12:00:27 9/20/2013 5TH ACCEPTED GOOD GRAB 8-B6 36419.91 5309594.91 607 234 8:24:45 9/20/2013 1ST Rejected REJECTED; GRAB DID NOT CLOSE 8-C1 366175.16 5308872.31 609 283 15:24:19 9/20/2013 1ST Rejected REJECTED; DID NOT CLOSE 8-C1 366185.79 5308880.33 609 286 15:44:53 9/20/2013 2ND Rejected REJECTED; DID NOT CLOSE 8-C1 366218.29 5308881.31 <td< td=""><td>8-B4</td><td>362434.53</td><td>5313451.93</td><td>605</td><td>198</td><td>11:26:16</td><td></td><td></td><td>ACCEPTED</td><td>ACCEPTED</td></td<>	8-B4	362434.53	5313451.93	605	198	11:26:16			ACCEPTED	ACCEPTED
8-B5 364231.43 5309069.53 608 28 11:24:21 9/20/2013 3RD Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364195.96 5309079.73 608 44 11:29:10 9/20/2013 5TH Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 36427.68 5309157.16 608 298 12:0027 9/20/2013 5TH ACCEPTED GODD GRAB 8-B6 364214.27 5309589.48 607 234 8:24:45 9/20/2013 1ST Rejected REJECTED; GRAB DID NOT CLOSE 8-B6 364197.3 5309589.491 607 235 8:44:06 9/20/2013 1ND ACCEPTED some turbidity 8-C1 366125.79 5308880.33 609 286 15:44:53 9/20/2013 2ND Rejected REJECTED; DID NOT CLOSE 8-C1 366128.29 5308884.18 609 314 7:05:10 9/21/2013 3RD ACCEPTED ACCEPTED 8-C1 366225.24 5308885.88 609 302 <td></td>										
8-B5 364195.96 5309079.73 608 44 11:29:10 9/20/2013 4TH Rejected Failed 5 & 6; ROCK IN GRAB 8-B5 364227.68 5309157.16 608 298 12:00:27 9/20/2013 STH ACCEPTED GOOD GRAB 8-B6 364214.27 5309589.48 607 235 8:44:06 9/20/2013 ST Rejected REJECTED; GRAB DID NOT CLOSE 8-B6 364197.3 5309589.49 607 235 8:44:06 9/20/2013 ND ACCEPTED some turbidity 8-C1 366175.16 5308872.31 609 283 15:24:19 9/20/2013 IST Rejected REJECTED; DID NOT CLOSE 8-C1 366185.79 5308880.33 609 286 15:44:53 9/20/2013 3ND Rejected REJECTED; DID NOT CLOSE 8-C1 366218.29 5308881.31 609 286 7:34:47 9/21/2013 3RD ACCEPTED ACCEPTED 8-C1 366225.24 5308885.88 609 302										
8-B5 364227.68 5309157.16 608 298 12:00:27 9/20/2013 STH ACCEPTED GOOD GRAB 8-B6 364214.27 5309589.48 607 234 8:24:45 9/20/2013 STT Rejected REJECTED; GRAB DID NOT CLOSE 8-B6 364197.3 5309594.91 607 235 8:44:06 9/20/2013 ND ACCEPTED some turbidity 8-C1 366175.16 5308872.31 609 283 15:24:19 9/20/2013 IST Rejected REJECTED; DID NOT CLOSE 8-C1 366185.79 5308880.33 609 286 15:44:53 9/20/2013 ND Rejected REJECTED; DID NOT CLOSE 8-C1 366218.29 5308881.31 609 286 73:44-5 9/21/2013 3RD ACCEPTED ACCEPTED 8-C1 366225.24 5308885.88 609 302 7:46:45 9/21/2013 5TH Rejected Did not deploy 8-C2 363847.05 5313285.12 605 40.5 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
8-B6 364214.27 5309589.48 607 234 8:24:45 9/20/2013 1ST Rejected REJECTED; GRAB DID NOT CLOSE 8-B6 364197.3 5309594.91 607 235 8:44:06 9/20/2013 1ND ACCEPTED some turbidity 8-C1 366125.76 5308872.31 609 283 15:24:19 9/20/2013 1ST Rejected REJECTED; DID NOT CLOSE 8-C1 366185.79 5308884.18 609 314 7:05:10 9/20/2013 3RD ACCEPTED ACCEPTED 3-C1 366233.6 5308881.31 609 286 7:34:47 9/21/2013 4TH Rejected REJECTED; DID NOT CLOSE 3-C1 366225.24 5308881.31 609 314 7:05:10 9/21/2013 4TH Rejected ACCEPTED ACCEPTED 3-C2 363847.05 5313253.24 605 40.5 8:44:53 9/20/2013 1ST Rejected Failed 6 3-C2 363848.56 5313282.12 605 43										
8-B6 364197.3 5309594.91 607 235 8.44:06 9/20/2013 2ND ACCEPTED some turbidity 8-C1 366175.16 5308872.31 609 283 15:24:19 9/20/2013 1ST Rejected REJECTED; DID NOT CLOSE 8-C1 366185.79 5308880.33 609 314 7:05:10 9/21/2013 ND Rejected REJECTED; DID NOT CLOSE 8-C1 366218.29 5308881.81 609 314 7:05:10 9/21/2013 3RD ACCEPTED ACCEPTED 8-C1 366238.5 5308881.31 609 286 7:34:47 9/21/2013 4TH Rejected Did not deploy 8-C1 366225.24 5308885.88 609 302 7:46:45 9/21/2013 5TH Rejected Did not deploy 8-C2 363847.05 5313282.12 605 43.2 8:53:39 9/20/2013 1ST Rejected Failed 6 8-C3 360362.02 5313734.8 603 178 15:01:23										
8-C1 366175.16 5308872.31 609 283 15:24:19 9/20/2013 1ST Rejected REJECTED; DID NOT CLOSE 8-C1 366185.79 5308880.33 609 286 15:44:53 9/20/2013 3ND Rejected REJECTED; DID NOT CLOSE 8-C1 366218.29 5308881.31 609 286 7:34:47 9/21/2013 3RD ACCEPTED ACCEPTED 8-C1 366225.24 5308881.31 609 286 7:34:47 9/21/2013 4TH Rejected Did not deploy 8-C1 366225.24 5308885.88 609 302 7:46:45 9/21/2013 5TH Rejected Did not deploy 8-C2 363847.05 5313282.12 605 40.5 8:44:53 9/20/2013 STN Rejected Failed 6 8-C2 363848.56 5313282.12 605 43.2 8:53:09 9/20/2013 SND ACCEPTED Slight winnowing at seam 8-C3 360362.02 5313734.8 603 178 15										
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8-C1 366218.29 5308848.18 609 314 7:05:10 9/21/2013 3RD ACCEPTED ACCEPTED 8-C1 366238.6 5308881.31 609 286 7:34:47 9/21/2013 4TH Rejected Did not deploy 8-C1 366225.24 5308885.88 609 302 7:46:45 9/21/2013 5TH Rejected Did not deploy 8-C2 363847.05 5313282.12 605 40.5 8:44:53 9/20/2013 1ST Rejected Failed 6 8-C2 363848.56 5313282.12 605 43.2 8:53:09 9/20/2013 2ND ACCEPTED Slight winnowing at seam 8-C3 360362.02 5313734.8 603 178 15:01:23 9/18/2013 1ST Rejected Failed 5 & 6, only water 8-C3 360362.92 5313734.82 603 176 15:06:38 9/18/2013 3ND Rejected Failed 6, overfilled 8-C3 360369.44 53137378.9 603 174 15:24										
8-C1 366233.6 5308881.31 609 286 7:34:47 9/21/2013 4TH Rejected Did not deploy 8-C1 366225.24 5308885.88 609 302 7:46:45 9/21/2013 5TH Rejected Did not deploy 8-C2 363847.05 5313285.12 605 40.5 8:44:53 9/20/2013 1ST Rejected Failed 6 8-C2 363848.56 5313328.12 605 43.2 8:53:09 9/20/2013 2ND ACCEPTED Slight winnowing at seam 8-C3 360362.02 5313734.8 603 178 15:01:23 9/18/2013 1ST Rejected Failed 5.8 6, only water 8-C3 360375.28 5313743.82 603 176 15:06:38 9/18/2013 3ND Rejected Failed 6, overfilled 3-C3 360369.44 5313737.98 603 174 15:24:13 9/18/2013 3RD ACCEPTED ACCEPTED 8-C4 361804.03 5313157.81 604 296 8:39										i
8-C1 366225.24 5308885.88 609 302 7:46:45 9/21/2013 5TH Rejected Did not deploy 8-C2 363847.05 5313253.24 605 40.5 8:44:53 9/20/2013 1ST Rejected Failed 6 8-C2 363848.56 5313282.12 605 43.2 8:53:09 9/20/2013 2ND ACCEPTED Slight winnowing at seam 8-C3 360362.02 5313734.8 603 178 15:01:23 9/18/2013 1ST Rejected Failed 5.8 6, only water 8-C3 360375.28 5313734.82 603 176 15:06:38 9/18/2013 ND Rejected Failed 6, overfilled 8-C3 360369.44 5313737.98 603 174 15:24:13 9/18/2013 3RD ACCEPTED ACCEPTED ACCEPTED 8-C4 361804.03 5313152.81 604 296 8:99:50 9/19/2013 1ST Rejected Failed 5. incomplete closure 3-C4 361834.3 5313102.58 604 <td></td>										
8-C2 363847.05 5313253.24 605 40.5 8:44:53 9/20/2013 15T Rejected Failed 6 8-C2 363848.56 5313282.12 605 43.2 8:53:09 9/20/2013 2ND ACCEPTED Slight winnowing at seam 8-C3 360362.02 5313734.8 603 178 15:01:23 9/18/2013 1ST Rejected Failed 5, only water 8-C3 360375.28 5313743.82 603 176 15:06:38 9/18/2013 2ND Rejected Failed 6, overfilled 8-C3 360369.44 5313737.98 603 174 15:24:13 9/18/2013 3RD ACCEPTED ACCEPTED 8-C4 361804.03 5313157.81 604 296 8:39:50 9/19/2013 1ST Rejected Failed 5, overfilled 8-C4 361834.3 5313102.58 604 238 8:55:52 9/19/2013 2ND Rejected Failed 5, over and a sand/gravel 8-C4 361834.3 5313102.58 604 238 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>i</td>										i
8-C2 363848.56 5313282.12 605 43.2 8:53:09 9/20/2013 2ND ACCEPTED Slight winnowing at seam 8-C3 360362.02 5313734.8 603 178 15:01:23 9/18/2013 1ST Rejected Failed 5 & 6, only water 8-C3 360375.28 5313743.82 603 176 15:06:38 9/18/2013 2ND Rejected Failed 6, overfilled 8-C3 360369.44 5313737.98 603 174 15:24:13 9/18/2013 3RD ACCEPTED ACCEPTED 8-C4 361804.03 5313157.81 604 296 8:39:50 9/19/2013 1ST Rejected Failed 5, incomplete closure 8-C4 361834.3 5313102.58 604 238 8:55:52 9/19/2013 2ND Rejected Failed 6, incomplete closure										
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8-C3 360375.28 5313743.82 603 176 15:06:38 9/18/2013 2ND Rejected Failed 6, overfilled 8-C3 360369.44 5313737.98 603 174 15:24:13 9/18/2013 3RD ACCEPTED ACCEPTED ACCEPTED ACCEPTED 361804.03 5313157.81 604 296 8:95:0 9/19/2013 15T Rejected Failed 5 & 6, rock and sand/gravel 8-C4 361834.3 5313102.58 604 238 8:55:52 9/19/2013 2ND Rejected Failed 6, overfilled										
8-C3 360369.44 5313737.98 603 174 15:24:13 9/18/2013 3RD ACCEPTED ACCEPTED 8-C4 361804.03 5313157.81 604 296 8:39:50 9/19/2013 1ST Rejected Failed 5 & 6, rock and sand/gravel 8-C4 361834.3 5313102.58 604 238 8:55:52 9/19/2013 2ND Rejected Failed 6, incomplete closure										
8-C4 361804.03 5313157.81 604 296 8:39:50 9/19/2013 1ST Rejected Failed 5 & 6, rock and sand/gravel 8-C4 361834.3 5313102.58 604 238 8:55:52 9/19/2013 2ND Rejected Failed 6, incomplete closure										
8-C4 361834.3 5313102.58 604 238 8:55:52 9/19/2013 2ND Rejected Falled 6, incomplete closure										
[8-C4 36182Z.12] 5313107.9 604 230 9:09:00 9/19/201313RD IACCEPTED IACCEPTED										
and the second of the second o	8-C4	361822.12	5313107.9	604	230	9:09:00	9/19/2013	3KD	ACCEPTED	ACCEPTED

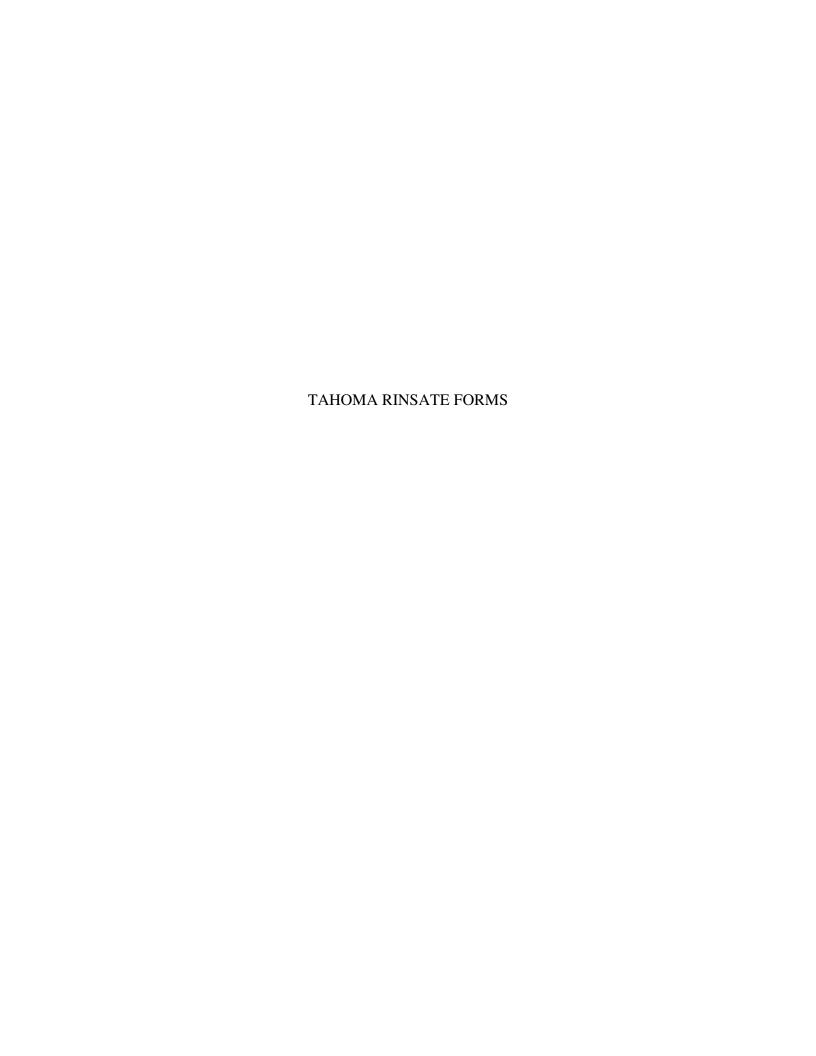
1B-C1	442912	5418855	734	2	14:41	10/22/2013		ACCEPTED	
1B-C2	442475.24	5418842.72	734	33.1	10:30:10	10/22/2013	1ST	Rejected	No recovery
1B-C2	442468.41	5418828.48	734	32.1	10:32:46	10/22/2013		Rejected	No recovery
1B-C2	442506.42	5418814.41	734	27.4	10:35:13	10/22/2013	3RD	Rejected	REJECT COBBLES
1B-C2	442473.04	5418802.65	734	28.4	10:38:03	10/22/2013	4TH	Rejected	No recovery
1B-C2	442459.84	5418802.09	734	29.2	10:40:06	10/22/2013	5TH	Rejected	No recovery
1B-C2	442445.69 442440.07	5418808.41	734 734	32.3	10:42:10	10/22/2013	6TH	Rejected	No recovery
1B-C2		5418832.46 5418812.63		32.8	10:45:01	10/22/2013		Rejected	No recovery
1B-C2 1B-C2	442456.28 442470.96	5418812.63	734 734	29.7 30.2	10:47:28 10:50:09	10/22/2013 10/22/2013	8TH	Rejected	No recovery
1B-C2 1B-C3	443176.26	5418971.53	734	30.2	11:41:55	10/22/2013		Rejected ACCEPTED	No recovery ACCEPT 8
1B-C3	441612.8	5418320.88	733	28.7	8:50:06	10/22/2013		Rejected	REJECT ROCKJAW, one cobble
1B-C4	441512.8	5418314.05	733	29.1	8:52:40	10/23/2013	2ND	Rejected	No recovery
1B-C4	441578.71	5418312.85	733	30.1	8:54:54	10/23/2013	3RD	Rejected	No recovery
1B-C4	441590.31	5418339.62	733	33.2	8:57:40	10/23/2013	4TH	Rejected	No recovery
1B-C4	441573.85	5418368.43	733	33.9	9:00:11	10/23/2013	5TH	Rejected	No recovery
1B-C4	441609.62	5418353.75	733	31.6	9:02:43	10/23/2013		Rejected	REJECT ROCKJAW, one rock
1B-C4	441630.97	5418359.47	733	32.9	9:05:26	10/23/2013	7TH	Rejected	No recovery
1B-C4	441589.82	5418333.26	733	31.7	9:08:12	10/23/2013		Rejected	No recovery
1B-C4	441570.18	5418309.28	733	29.8	9:10:30	10/23/2013	9TH	Rejected	No recovery
1B-R1	442945.93	5419142.95	735	34	10:29:43	10/22/2013	1ST	Rejected	No recovery - water
1B-R1	442940.37	5419206.54	735	21	10:33:38	10/22/2013	2ND	Rejected	3 large cobbles
1B-R1	442977.96	5419214.86	735	23	10:36:25	10/22/2013	3RD	Rejected	Cobbles and gravel
1B-R1	442971.16	5419213.63	735	22	10:39:10	10/22/2013	4TH	Rejected	No recovery - water
1B-R1	442938.14	5419217.65	735	19	10:40:39	10/22/2013	5TH	Rejected	One rock
1B-R1	442953.9	5419188.25	735	28	10:43:04	10/22/2013		Rejected	No recovery - water
1B-R1	442956.22	5419168.98	735	38	10:46:54	10/22/2013	7TH	Rejected	No recovery - water
1B-R1	442933	5419190.19	735	21	10:49:01	10/22/2013	8TH	Rejected	One cobble, trace sand
1B-R1	442935.82	5419201.12	735	19	10:52:02	10/22/2013	9TH	Rejected	Two rocks
1B-R2	442818	5418846	734	2	13:18	10/22/2013	1ST	ACCEPTED	
1B-R3	443089.75	5418973.73	735	3.5	9:52:41	10/23/2013	1ST	ACCEPTED	ACCEPT 5
1B-R4	443511.12	5419243.85	735	66.5	11:14:27	10/23/2013	1ST	Rejected	One gravel piece, few sand grains
1B-R4	443525.6	5419232.58	735	40.9	11:17:51	10/23/2013		Rejected	REJECT ROCKJAW, one large flat rock
1B-R4	443540.69	5419218	735	46.1	11:20:33	10/23/2013	3RD	Rejected	REJECT COBBLES
1B-R4	443573.64	5419225.55	735	26.8	11:26:23	10/23/2013		Rejected	No recovery
1B-R4	443557.67	5419224.21	735	32.2	11:28:26	10/23/2013	5TH	Rejected	No recovery
1B-R4	443533.03	5419215.78	735	43.2	11:31:05	10/23/2013	6TH	Rejected	REJECT ROCKJAW, cobbles
1B-R4	443510.29	5419267.53	735	36.6	11:35:13	10/23/2013	7TH	Rejected	No recovery
1B-R4	443528.83	5419229.47	735	37.9	11:41:06	10/23/2013	8TH	Rejected	REJECT ROCKJAW
1B-R4	443541.6	5419232.6	735	41.8	11:43:11	10/23/2013	9TH	Rejected	REJECT ROCKJAW, 100% gravel
2B-C1	434669.37	5412214.2	727	38.5	11:06:52	10/17/2013	1ST	Rejected	REJECT, EMPTY
2B-C1	434660.67	5412246.24	727	45.9	11:11:38	10/17/2013		Rejected	REJECT COBBLE, EMPTY
2B-C1	434686.34	5412241.73	727	37.2	11:15:39	10/17/2013	3RD	Rejected	REJECT ROCKJAW, EMPTY
2B-C1	434632.67	5412212.46	727	38	11:18:08	10/17/2013		Rejected	REJECT, EMPTY
2B-C1	434652.94	5412201.24	727	39.2	11:21:32	10/17/2013	5TH	Rejected	REJECT, EMPTY
2B-C1	434674.7	5412194.74	727	38.2	11:25:07	10/17/2013	6TH	Rejected	REJECT, EMPTY
2B-C1	434700.6	5412218.93	727 727	37.6	11:29:09	10/17/2013	7TH	Rejected	REJECT TRACE OF SAND, Failed 5 & 6
2B-C1	434694.85	5412219.75		38.4 39.4	11:35:38 11:39:30	10/17/2013	8TH	Rejected	REJECT ROCKJAW
2B-C1 2B-C2	434698.07 434175.6	5412217.07 5411911.01	727 727	78.9	9:21:54	10/17/2013 10/17/2013	9TH 1ST	Rejected Rejected	REJECT, EMPTY REJECT, EMPTY
2B-C2	434217.47	5411911.01	727	77.6	9:30:38	10/17/2013		Rejected	REJECT, EMPTY
2B-C2	434215.73	5411887.13	727	74.6	9:36:48	10/17/2013	3RD	Rejected	REJECT, EMPTY
2B-C2	434193.09	5411926.54	727	76.8	9:42:10	10/17/2013		Rejected	REJECT COBBLES
2B-C2	434147.77	5411928.67	727	74.8	9:46:49	10/17/2013	5TH	Rejected	REJECT, EMPTY
2B-C2	434191.57	5411950.46	727	72.1	9:52:04	10/17/2013	6TH	Rejected	REJECT ROCKJAW COBBLES
2B-C2	434221.57	5411944.96	727	69.6	9:57:36	10/17/2013	7TH	Rejected	REJECT ROCKJAW, EMPTY
2B-C2	434201.64	5411927.34	727	72.3	10:03:06	10/17/2013	8TH	Rejected	REJECT, EMPTY
2B-C2	434161.36	5411885.65	727	93.7	10:07:28	10/17/2013		Rejected	REJECT, EMPTY
2B-C3	433706.04	5411598.24	726	47.3	13:11:29	10/16/2013	1ST	Rejected	REJECT GRAVEL
2B-C3	433715.93	5411583.94	726	37.5	13:16:54	10/16/2013		Rejected	REJECT GRAVEL SAND
2B-C3	433708.42		726	39.4	13:19:54	10/16/2013		Rejected	REJECT, EMPTY
2B-C3	433694.7	5411563.76	726	26.8	13:26:43	10/16/2013		Rejected	EMPTY ROCKJAW
2B-C3	433718.09		726	50.1	13:30:35	10/16/2013		Rejected	REJECT, EMPTY
2B-C3	433635.82	5411605.5	726	80.1	13:35:15	10/16/2013	6TH	Rejected	REJECT, EMPTY
2B-C3	433661.51	5411574.11	726	39.8	13:41:00	10/16/2013		Rejected	REJECT, EMPTY
2B-C3	433665.84	5411567.82	726	36.9	13:44:21	10/16/2013	8TH	ACCEPTED	A COURTED All
2B-C3	433670.04								ACCEPTED, 4"
2B-C4		5411567.6	726	34.8	13:51:05	10/16/2013		Rejected	REJECT ROCKJAW
	435628.34	5413199.42	726 728	61.7	9:02:20	10/24/2013	1ST	Rejected Rejected	REJECT ROCKJAW No recovery
2B-C4	435628.34 435609.93	5413199.42 5413183.78	726 728 728	61.7 44.5	9:02:20 9:05:34	10/24/2013 10/24/2013	1ST 2ND	Rejected Rejected Rejected	REJECT ROCKJAW No recovery No recovery
2B-C4	435628.34 435609.93 435593.83	5413199.42 5413183.78 5413196.58	726 728 728 728	61.7 44.5 42.4	9:02:20 9:05:34 9:08:40	10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD	Rejected Rejected Rejected Rejected	REJECT ROCKJAW No recovery No recovery No recovery
2B-C4 2B-C4	435628.34 435609.93 435593.83 435590.38	5413199.42 5413183.78 5413196.58 5413166.13	726 728 728 728 728	61.7 44.5 42.4 43.9	9:02:20 9:05:34 9:08:40 9:10:39	10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH	Rejected Rejected Rejected Rejected Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery
2B-C4 2B-C4 2B-C4	435628.34 435609.93 435593.83 435590.38 435604.21	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63	726 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH	Rejected Rejected Rejected Rejected Rejected Rejected	REJECT ROCKJAW No recovery No recovery No recovery
2B-C4 2B-C4 2B-C4 2B-C4	435628.34 435609.93 435593.83 435590.38 435604.21 435613	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63 5413153.72	728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH	Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1	435628.34 435609.93 435593.83 435590.38 435604.21 435613 435464.48	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63 5413153.72 5412984.28	726 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013	1ST 2ND 3RD 4TH 5TH 6TH	Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1	435628.34 435609.93 435593.83 435590.38 435604.21 435613 435464.48 435518.5	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63 5413153.72 5412984.28 5412997.65	726 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:41:05	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND	Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1	435628.34 435609.93 435593.83 435590.38 435604.21 435613 435464.48 435518.5 435500.05	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63 5413153.72 5412984.28 5412997.65 5412968.55	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:41:05	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD	Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected Rejected ACCEPTED	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8"
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1	435628.34 435699.93 435593.83 435590.38 435604.21 435613 435464.48 435518.5 435500.05 435503.12	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63 5413153.72 5412984.28 5412997.65 5412968.55	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:41:05 12:44:49 12:53:13	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH	Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1	435628.34 435609.93 435593.83 435590.38 435604.21 435613 435464.48 435518.5 435500.05 435503.12 435497.03	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63 5413153.72 5412984.28 5412997.65 5412968.83 5412971.17	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:41:05 12:44:49 12:53:13 12:59:57	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH	Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6"
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2	435628.34 435609.93 435593.83 435590.38 435604.21 435613 435464.48 435518.5 435500.05 435503.12 435497.03 435848.24	5413199.42 5413183.78 5413196.58 5413166.13 5413155.63 5413153.72 5412984.28 5412997.65 5412968.55 5412968.83 5412971.17	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:41:05 12:44:49 12:53:13 12:59:57 9:23:43	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH	Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R2	435628.34 435609.93 435593.83 435590.38 435500.421 435613 435464.48 435518.5 435503.05 435503.12 435484.24	5413199.42 5413183.78 5413166.13 5413155.63 5413155.63 5413155.63 5412984.28 5412997.65 5412968.85 5412968.83 5412971.17 5413607.56 5413585.09	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:44:49 12:53:13 12:59:57 9:23:43 9:00:23	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH 10TH	Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R2 2B-R2	435628.34 435609.93 435593.83 435590.38 435504.21 435613 435464.48 435518.5 435500.05 435503.12 435497.03 435848.24 435847.38	5413199.42 5413183.78 5413166.13 5413155.63 5413155.63 5413155.63 5412984.28 5412997.65 5412968.83 5412971.17 5413607.56 5413585.09	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:44:05 12:53:13 12:59:57 9:23:43 9:00:23	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH 10TH 1ST 2ND	Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R2 2B-R2 2B-R2	435628.34 435609.93 435593.83 435590.38 435504.21 435613 435464.48 435518.5 435500.05 435503.12 435497.03 435848.24 435845.24 435845.24	5413199.42 5413183.78 5413196.58 5413165.63 5413155.63 5413153.72 5412997.65 5412998.55 5412968.55 5412971.17 5413607.56 5413585.09 5413585.15	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:44:49 12:53:13 12:59:57 9:23:33 9:02:50 9:05:24	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH 10TH 1ST 2ND 3RD	Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery No recovery
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2	435628.34 435609.93 435593.83 435593.83 435604.21 435613 435644.48 435518.5 435500.05 435503.12 43544.38 435848.24 435848.38 435805.48	5413199.42 5413183.78 5413196.58 5413196.58 5413155.63 5413155.63 5412984.28 5412997.65 5412968.83 541297.75 541367.75 5413585.09 5413585.05 5413585.05	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:44:49 12:59:57 9:23:43 9:00:23 9:00:52 9:09:44	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 1OTH 1ST 2ND 3RD 4TH	Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery No recovery Cobbles
2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2	435628.34 435609.93 435593.83 435590.38 435604.21 435613 435613.4 435513.5 435503.12 435503.12 435684.48 435584.5 435585.5 43586.5 43586.5 43586.48 43588.5 435888.5 43588.5 43588.5 43588.5 43588.5 43588.5 43588.5 435888.5 43588.5	\$413199.42 \$43183.78 \$43196.58 \$43196.51 \$43195.63 \$431315.72 \$41297.65 \$412994.28 \$412997.17 \$43607.56 \$41297.17 \$43607.56 \$41358.50 \$41358.51 \$41357.65 \$41358.55 \$41358.	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29 32 31	9:02:20 9:05:34 9:08:40 9:10:39 9:13:31 9:18:30 12:34:15 12:44:49 12:59:57 9:23:43 9:00:23 9:00:24 9:00:24 9:00:24 9:00:24	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH 1OTH 1ST 2ND 3RD 4TH 4TH 5TH 1ST 2ND 3RD 4TH 4TH 5TH 1ST 2ND 3RD 4TH 4TH 5TH 4TH 5TH 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2	435628.34 435609.93 435590.38 435590.38 435604.21 435613 435613.2 435500.05 435500.05 435500.03 435848.24 435844.38 435845.38 435845.48 435845.48 435845.48 435845.48	\$41319.42 \$43183.78 \$43136.58 \$43136.53 \$41315.63 \$41315.63 \$41315.72 \$41297.65 \$412968.55 \$412968.55 \$41297.17 \$41360.75 \$41357.65 \$41357.65 \$41357.65 \$413583.94 \$41359.22 \$41360.75 \$41359.52 \$41359.52 \$41359.52 \$41359.52 \$41360.50	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29 32 31 222	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:44:49 12:53:13 12:59:57 9:00:23 9:00:24 9:00:24 9:00:24 9:00:24 9:00:24 9:00:24 9:00:24 9:00:24	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH 5TH 1ST 2ND 3RD 4TH 5TH 6TH 6TH 5TH 6TH 6TH 6TH 6TH 6TH 6TH 6TH 6TH 6TH 6	Rejected ACCEPTED Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT SICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery No recovery Cobbles No recovery Sandy gravel, signs of sediment loss
2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2 2B-R2	435628.34 435609.93 435590.38 435590.38 435604.21 435613 435613.4 435518.5 435500.05 435590.30 435497.03 435497.03 435848.24 435847.88 435849.38 435849.89 435849.89 435849.93	\$41319.42 \$43183.78 \$431316.58 \$431316.31 \$431315.63 \$431315.72 \$412997.65 \$412968.55 \$412968.55 \$412968.55 \$412968.55 \$413607.56 \$43385.09 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43385.99 \$43357.56 \$43369.20 \$4369.20 \$4369.20 \$4369.20 \$4369.20 \$4369.20 \$4369.20 \$4369.20 \$4369.20	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29 32 31 22 31	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18 9:18:30 12:34:15 12:44:05 12:53:13 12:59:57 9:23:43 9:00:23 9:00:23 9:00:24 9:09:44 9:09:44 9:13:49 9:17:11	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH 10TH 1ST 2ND 3RD 4TH 5TH 10TH 1ST 2ND 3RD 4TH 5TH 6TH 1TH 1TH 1TH 1TH 1TH 1TH 1TH 1TH 1TH 1	Rejected ACCEPTED Rejected ACCEPTED Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery No recovery No recovery Sandy gravel, signs of sediment loss Trace sand and grave, signs of sediment loss
2B-C4 2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2	435628.34 435609.93 4355903.83 435590.38 435604.21 435613.4 435613.4 435613.4 4355803.12 435503.12 435804.38 435848.24 435848.24 435848.24 435848.24 435848.38 435848.38 435848.58 435848.58 435848.58	\$41319.42 \$43183.78 \$431316.58 \$431316.31 \$41315.63 \$413155.63 \$413155.63 \$41355.63 \$412994.28 \$412997.65 \$412988.83 \$412997.17 \$413607.56 \$413885.15 \$413885.15 \$41357.55 \$413585.25 \$413595.22 \$41360.60	726. 728. 728. 728. 728. 728. 728. 728. 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29 32 31 22 31 29 24	9:02:20 9:05:34 9:08:40 9:10:39 9:13:18:30 12:34:15 12:44:49 12:53:13 9:00:23 9:00:23 9:00:34 9:11:49 9:13:29 9:17:11 9:20:00	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 1ST 2ND 3RD 4TH 5TH 1OTH 1ST 2ND 3RD 4TH 5TH 6TH 1ST 2ND 3RD 4TH 5TH 6TH 6TH 5TH 6TH 8TH 8TH 8TH	Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery No recovery No recovery Sandy gravel, signs of sediment loss Did not close
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2B-C4 2B-C4 2B-C4 2B-C4 2B-R1 2B-R1 2B-R1 2B-R1 2B-R1 2B-R2 2B-R3 2B-R3	435628.34 435609.93 435590.38 435590.38 435504.21 435613 435614.48 435518.5 435500.05 43569.48 435501.24 43569.38 43588.24 43589.38 435848.54 435848.54 435848.54 435849.93 435849.9	\$413199.42 \$413183.78 \$413196.83 \$413155.63 \$413155.63 \$413155.63 \$412994.85 \$412997.65 \$412968.55 \$412968.55 \$412968.55 \$412971.17 \$413607.56 \$413585.15 \$413575.65 \$413575.65 \$413580.217 \$413602.17 \$413602.17 \$413590.72 \$413590.72 \$411755.39 \$411755.39 \$411755.39 \$411755.39	726 728 728 728 728 728 728 728 728 728 728	61.7 44.5 42.4 43.9 50.4 53.8 47.9 60 74.4 73.4 76.6 30 26 29 32 31 22 31 29 24 25 77.8 78.5	9:02:20 9:05:34 9:10:39 9:13:18 9:18:30 9:18:30 12:34:15 12:44:95 12:53:43 12:59:57 9:23:43 9:00:23 9:00:23 9:00:24 9:91:49 9:11:49 9:17:11 10:40:20 11:10:40 11:10:50 11:10:50 11:10:50	10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/24/2013 10/17/2013 10/17/2013 10/17/2013 10/17/2013 10/24/2013	1ST 2ND 3RD 4TH 5TH 10TH 1ST 2ND 3RD 4TH 5TH 10TH 1ST 2ND 3RD 4TH 5TH 10TH 1ST 2ND 3RD 4TH 5TH 1ST 2ND 3RD 4TH 5TH 1ST 2ND 3RD 4TH 3STH 1ST 3ND 4TH 3STH 1ST 3ND 4TH 3STH 3ND 4TH 3STH 3ND 4TH 3STH 3ND 4TH 3STH 3ND 3ND 4TH 3STH 3ND 3ND 4TH 3STH 3ND 3ND 4TH 3ND 3ND 3ND 4TH 3ND 3ND 3ND 3ND 4TH 3ND	Rejected	REJECT ROCKJAW No recovery No recovery No recovery No recovery Sieved and kept sand REJECT, EMPTY REJECT ROCKJAW, EMPTY ACCEPT, 8" REJECT STICKJAW, EMPTY ACCEPT, 6" One cobble Large cobbles No recovery No recovery No recovery Sandy gravel, signs of sediment loss Trace sand and grave, signs of sediment loss Did not close Did not close Did not close REJECT, HELD OPEN BY ROCKS REJECT TRACE OF GRAVEL REJECT TRACE OF GRAVEL REJECT TRACE OF GRAVEL

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18-11 42627476 5406814.5 720 83.3 1103.25 101/4/2013 TH Rejected REJECTED POCOMSE	3B-R1	426246.81	5406816.43	720	81.6	10:52:52	10/14/2013	5TH	Rejected	REJECT 1 LARGE BOULDER
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Bar									Rejected	
SAR-22 42588.79 5043992.16 718 797 12-52-05 10/14/2013 8TH Rejected REJECT COBBLE									Rejected	
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78-C1 398664.02 5301326.36 637 272 14:46:41 9/16/2013 ST Rejected Failed 5 & 6, no sediment 78-C1 398667.21 5301329.01 637 271 15:01:12 9/16/2013 2ND Rejected Failed 5 & 6, no sediment 78-C2 392655.06 5299892.81 632 220 9:39:56 9/12/2013 IST ACCEPTED ACCEPTED 78-C3 392655.06 5299892.81 632 220 9:39:56 9/12/2013 IST ACCEPTED ACCEPTED 78-C4 397022.96 5298004.92 634 175 13:23:40 9/16/2013 IST ACCEPTED ACCEPTED 78-C4 397022.96 5298004.92 634 175 13:23:40 9/16/2013 IST ACCEPTED ACCEPTED 78-C4 397022.96 5298004.92 634 175 13:23:40 9/16/2013 IST ACCEPTED ACCEPTED 78-C4 397023.95 602 298 8:46 9/18/2013 IST ACCEPTED ACCEPTED 78-C3 335197.33 5311303.61 600 112 83:142 9/18/2013 IST ACCEPTED ACCEPTED 88-C3 353397.33 5311826.83 599 311 10:42:14 9/18/2013 IST ACCEPTED ACCEPTED 88-C4 352174.41 5312039.31 598 341 13:25:15 9/18/2013 IST ACCEPTED ACCEPTED 88-C4 352174.17 5380816.74 699 64 10:47:55 10/4/2013 IST ACCEPTED ACCEPTED ACCEPTED 88-C4 416071.7 5380816.74 699 63 10:52:47 10/4/2013 IST Rejected Did not close 88-C1 416073.37 538083.715 699 55 10:58:80 10/4/2013 TR Rejected Did not close 88-C1 416068.83 5380867.38 699 55 11:30:12 10/4/2013 TH ACCEPTED ACCEPTED ACCEPTED 88-C1 416070.06 5380867.38 699 55 11:30:12 10/4/2013 TH Rejected Rejected Failed 5 & 6, Rocks in jaws Ref-1 416070.06 5380806.738 699 55 11:30:12 10/4/2013 TH Rejected Rejected Failed 5 & 6, Rocks in jaws Ref-1 416070.06 5380806.738 699 54 11:36:41 10/4/2013 TH Rejected Rejected Reference R										
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	REF-3	412117.32	53/0099.08	689	22.4	11:33:08	10/1/2013	ын	кеjected	KEJECTED EMPTY

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11 1		412077.98								
1974 4.1006.00 53000.00 47.00 40.0 43.0 43.00		412072.54	5370112.13	689	38.8		10/1/2013	9TH	ACCEPTED	ACCEPTED, 8"
Section Column	REF-4	411894.7	5356527.06	679	43.2	12:31:51	9/30/2013	1ST	Rejected	REJECTED ROCK JAW
14.4 41915 1509220 27 44 22533 2000000 24 267070 27 27 27 27 27 27 27	REF-4	411896.85	5356533.82	679	38.4	12:35:27	9/30/2013	2ND	Rejected	REJECT ROCKJAW
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Fig. 16										
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March Marc	Ref-5	414602.8	5352342.24	676	58.6	12:12:32	9/27/2013	9TH	Rejected	REJECTED COBBLES
March Marc	Ref-5B	411832.85	5354926.34	678	19.9	13:47:05	9/27/2013	1ST	Rejected	REJECTED ROCKS
March Marc	Ref-5B	411876.86	5354905.09	678	52.4	13:50:08	9/27/2013	2ND	Rejected	REJECTED ROCK IN JAWS GOOD SEDIMENT
\$4.50							9/27/2013	3RD		
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Fig. 72 3986774, 518167723 546 58 15.58-58 97.13/2013 Third Rejected Falled 5, a local colored Fall	Ref-6	400854.03	5322789.98	652	42	12:32:36	9/14/2013	7TH	ACCEPTED	ACCEPTED
Fig. 72 3986774, 518167723 546 58 15.58-58 97.13/2013 Third Rejected Falled 5, a local colored Fall	REF-7	396875.06	5316368.18	646	79	15:28:07	9/13/2013	10TH	ACCEPTED	4 (Slight mounding)
REF-7 396878, 8 5181770.65 666 68 5.585.85 97.13/2013 2771 Rejected Falled 5 & 6			5316372.23							
16.67-7 39687-89 531673-60 646 666 75 161537 9/13/2013 1714 ACCEPTED 76.600 76	REF-7	396878.14	5316370.64	646	84	15:58:58	9/13/2013	12TH		Failed 5 & 6
REF-7 39686.89 511674.65 646 76 161527 9713/2013 771 Repected Ref-7 39687.34 5316573.6 646 44 113959 9713/2013 781 Repected Ref-7 80687.6 781 78167.5										
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REF-8 393934.1 59948.59 632 9 33502.8 9/16/2013 ND Rejected REF-8 3993.98 59947.27 632 50.8 14.2738 9/16/2013 TH ACCEPTED Accepted REF-8 3993.98 59948.72 632 50.8 14.2738 9/16/2013 TH ACCEPTED Accepted REF-8 3993.95 59948.76 632 49.6 15.0601 9/16/2013 TH Accepted REF-9 300841.77 513394.24 604 20.2 15.0116 9/16/2013 TH Rejected Rock in sampler REF-9 300881.45 513394.94 604 5.1 15.1126 9/19/2013 17H Rejected Rock in sampler REF-9 300881.46 513394.94 604 5.1 15.1126 9/19/2013 17H Rejected Rock in sampler REF-9 300881.76 513394.94 604 3.4 51.512.27 9/19/2013 17H Rejected Accepte	REF-7	396859.07	5316319.31	646	70.01	14:50:51	9/13/2013	9TH	Rejected	No recovery
REF-8 391930.36 2999471.21 632 51.5 13:56.21 91:6/2013 BRD ACCEPTED Accepted REF-8 391927.95 593485.27 632 50.8 14:48.31 91:6/2013 STH ACCEPTED Accepted REF-8 391932.95 593476.66 632 49.6 15:06.01 91:6/2013 37H ACCEPTED Accepted REF-8 391933.26 5259476.1 632 48.2 15:12.02 91:6/2013 37H ACCEPTED Accepted REF-9 306085.06 5313191.91 604 40.5 15:01:66 91/9/2013 31TH ACCEPTED Accepted REF-9 306085.06 5313191.91 604 40.5 15:01:69 91/9/2013 11TH Rejected Rocks in sampler REF-9 306081.46 5313343.04 604 5.1 15:11:69 91/9/2013 13TH Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected	REF-8	391928.55	5299435.2	632	9	13:47:03	9/16/2013	1ST	Rejected	Failed 4 & 6
REF-8 391938.98 299478.77 632 50.8 14273.88 9/16/2013 GH ACCEPTED Accepted REF-8 391939.96 299478.66 632 49.6 15:06:01 9/16/2013 GH Repected Filled 5.8 6 REF-8 391939.52 52940.76:1 632 48.2 15:1202 3/16/2013 GH Repected Filled 5.8 6 REF-9 36084.77 5313941.24 664 20.2 15:011.6 9/9/9/003 100H Repected Recented	REF-8	391934.1	5299435.95	632	9	13:50:24	9/16/2013	2ND	Rejected	Failed 5 & 6
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REF.8 391939-56 5290478-66 632 49.6 15:00:01 9/16/2013 Fift Rejected Failed 5 & 6 REF.9 360841.77 331393-6 52904/76-1 63.2 48.2 15:12/0 9/16/2013 Fift ACCEPTED Received	REF-8									·
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REF-9 36085.6 (a) 53399.17 (b) 604 4.0.5 150.489 (b) 9/13/2013 1TH Rejected Resolver of sampler REF-9 360881.4 (b) 531394.98 (b) 604 5.1 151.617 (b) 9/13/2013 1TH Rejected Falled 8.6 (b) 5.1 151.617 (b) 9/13/2013 1TH Rejected Falled 8.6 (b) 5.1 151.617 (b) 9/13/2013 1TH Rejected Falled 5.8 (b) 5.3 60.848 (b) 3.13234.15 (b) 604 3.4.5 13234.16 (b) 9/13/2013 1TH Rejected Falled 5.8 (b) 5.3 60.848 (b) 6.1 8.108 14 (b) 8.6 (c) 8.6 (c) 8.6 (c) 8.6 (c) 8.6 (c) 9/13/2013 1TH Rejected Falled 5.8 (b) 5.5 (c) 5.8 (c) 8.6 (c) 9/13/2013 1TH Rejected Falled 5.8 (b) 5.5 (c) 5.6 (c) 8.6 (c) 9/13/2013 1TH Rejected Falled 5.8 (b) 5.5 (c) 5.6 (c) 8.6 (c) 9/13/2013 1TH Rejected Falled 5.8 (b) 5.6 (c) 8.6 (c) 9	REF-8 REF-8	391935.98 391927.95 391939.96	5299478.77 5299485.27 5299478.66	632 632 632	50.8 50.4 49.6	14:27:38 14:48:31 15:06:01	9/16/2013 9/16/2013 9/16/2013	4TH 5TH 6TH	ACCEPTED ACCEPTED Rejected	Accepted Accepted Failed 5 & 6
REF-9 360881.46 331393.04 604 5.4 1511.26 9/13/2013 12TH Rejected Research Incomplete closure of sampler REF.9 360881.6 513392.419 604 5.1 151.617 9/19/2013 1ST Rejected Failed \$ & 6, sand & gravel on one side REF.9 360881.0 531392.15 604 3.4 13231.01 9/19/2013 IST Rejected Failed \$ & 6, sand & gravel on one side REF.9 360881.0 531392.15 604 2.8 1354360 9/19/2013 IST Rejected Failed \$ & 6, sand & gravel on one side REF.9 36088.02 5313941.26 604 6.4 14-00.21 9/19/2013 IST Rejected Failed \$ & 6, sand & gravel on one side REF.9 36088.02 5313941.26 604 6.4 14-00.21 9/19/2013 IST Rejected Failed \$ & 6, sand & gravel on one side REF.9 36088.12 5313942.0 604 6.4 14-00.21 9/19/2013 IST Rejected Failed \$ & 6, sond to stand to sample REF.9 36088.12 5313932.2 604 5.2 14-20.19 9/19/2013 IST Rejected Fai	REF-8 REF-8 REF-8	391935.98 391927.95 391939.96 391935.26	5299478.77 5299485.27 5299478.66 5299476.1	632 632 632 632	50.8 50.4 49.6 48.2	14:27:38 14:48:31 15:06:01 15:12:02	9/16/2013 9/16/2013 9/16/2013 9/16/2013	4TH 5TH 6TH 7TH	ACCEPTED ACCEPTED Rejected ACCEPTED	Accepted Accepted Failed 5 & 6 Accepted
REF-9 360881.0 5313943.6 604 5.1 15:16:17 9/19/2013 13TH Rejected Failed 5 & 6, and & gravel on one side REF-9 360881.0 5313922.15 604 3.6 13:48:35 9/19/2013 2ND Rejected REF-9 360851.09 5313922.15 604 6.6 14:60:19/19/2013 2ND Rejected Failed 5 & 6, and material to sample REF-9 360851.09 5313923.7 604 6.6 14:20:16 9/19/2013 SRD Rejected Failed 5 & 6, and material to sample REF-9 360850.25 5313943.6 604 6.6 14:20:16 9/19/2013 SRD Rejected REF-9 360880.27 5313942.95 604 6.6 14:20:16 9/19/2013 STH Rejected REF-9 360880.27 5313942.95 604 6.6 14:20:16 9/19/2013 STH Rejected REF-9 360880.28 5313934.31 604 6.4 14:00:16 9/19/2013 STH Rejected REF-9 360880.28 5313943.21 604 6.1 14:20:16 9/19/2013 STH Rejected REF-9 360880.29 5313942.26 604 5.6 14:30:13 9/19/2013 STH Rejected REF-9 360880.28 5313928.87 604 22 14:47:10 9/19/2013 STH Rejected REF-9 360861.24 5313928.87 604 27 14:47:10 9/19/2013 STH Rejected REF-9 360861.25 5313928.87 604 27 14:47:10 9/19/2013 STH Rejected REF-9 360861.25 5313928.87 604 27 14:47:10 9/19/2013 STH Rejected Failed 5 & 6 REF-9 360861.25 5313928.87 604 27 14:47:10 9/19/2013 STH Rejected Failed 5 & 6 REF-9 360861.25 5313928.87 604 27 14:47:10 9/19/2013 STH Rejected Failed 5 & 6 REF-9 360861.25 5313928.87 604 27 14:47:10 9/19/2013 STH Rejected Failed 5 & 6 REF-9 360861.25 5313928.87 604 37 16:47:59 9/13/2013 STR Rejected Failed 5 & 6 REF-10 35605.17 5312524.64 601 6.8 10:05:45 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.17 5312524.64 601 6.8 10:05:45 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.17 531254.95 601 6.8 10:05:45 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.17 531254.95 601 6.8 10:05:45 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.10 531247.95 601 52.9 10:95:09 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.10 531249.94 601 6.8 10:05:49 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.10 531249.94 601 6.8 10:05:49 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.10 531249.94 601 54.8 12:29 9/18/2013 STD Rejected Failed 5 & 6 REF-10 35605.10 531249.94 601 16.8 14:10:49	REF-8 REF-8 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77	5299478.77 5299485.27 5299478.66 5299476.1 5313934.24	632 632 632 632 604	50.8 50.4 49.6 48.2 20.2	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler
REF-9 360848.1 5313924.5 604 3.6 13:23:16 9/19/2013 IST Rejected Failed 5.8 6, son all & gravel on one side REF-9 36085.10 5313922.15 604 3.6 13:48:35 9/19/2013 RND Rejected Failed 5.8 6, no material to sample REF-9 36088.02 5313942.3 604 6.4 14:00:21 9/19/2013 RTH ACCEPTED Accepted REF-9 36088.18 531392.3 604 6.6 14:20:16 9/19/2013 STH Rejected Failed 5.8 6, rocks in sampler REF-9 36088.18 5313934.2 604 6.6 14:26:13 9/19/2013 BTH Rejected Failed 5.8 6, rocks in sampler REF-9 36088.12 5313934.2 604 5.6 14:36:13 9/19/2013 BTH Rejected Failed 5.8 6	REF-8 REF-8 REF-9 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77 360856.06	5299478.77 5299485.27 5299478.66 5299476.1 5313934.24 5313919.17	632 632 632 632 604 604	50.8 50.4 49.6 48.2 20.2 40.5	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH 11TH	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler
REF-9 360851.09 531392.37 664 26.8 13:354.35 9/19/2013 Rejected Failed 5.8.6, no material to sample REF-9 360860.78 5313929.37 664 26.8 13:5436 9/19/2013 RD Rejected Failed 5.8.6 6 REF-9 360880.27 5313941.26 604 6.4 14:00:21 9/19/2013 STH ACCEPTED Accepted REF-9 360880.27 5313942.26 604 6.6 14:20:16 9/19/2013 STH RECEGE Failed 5.8.6 6 REF-9 360880.92 5313942.26 604 5.6 14:30:31 9/19/2013 TH Rejected Failed 5.8.6 6 REF-9 360861.24 5313938.27 604 27 14:47:10 9/19/2013 TH Rejected Failed 5.8.6 6 REF-9 360861.24 5313938.87 604 27 14:47:10 9/19/2013 STN Rejected Failed 5.8.6 6 REF-9 363011.25 531	REF-8 REF-8 REF-9 REF-9 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77 360856.06 360881.44	5299478.77 5299485.27 5299478.66 5299476.1 5313934.24 5313919.17 5313943.04	632 632 632 632 604 604 604	50.8 50.4 49.6 48.2 20.2 40.5 5.4	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:26	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH 11TH	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected Rejected Rejected Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler
REF-9 360861.7E 5313929.37 604 2.6 R 13:54:36 9/19/2013 Rejected Failed 5 & 6 REF-9 360880.52 5313941.26 604 6.4 14:00:21 9/19/2013 3TH ACCEPTED Accepted REF-9 360880.75 5313942.75 604 6.6 14:20:16 9/19/2013 5TH Rejected Failed 5 & 6 roks 6 14:20:17 Failed 5 & 6 Failed 5	REF-8 REF-8 REF-9 REF-9 REF-9 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77 360856.06 360881.44 360881.26	5299478.77 5299485.27 5299478.66 5299476.1 5313934.24 5313919.17 5313943.04 5313941.98	632 632 632 632 604 604 604	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:26 15:16:17	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH 11TH 12TH 13TH	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected Rejected Rejected Rejected Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing
REF-9 360880.52 5313942.95 604 6.6 14:20:16 9/19/2013 3TH ACCEPTED Accepted REF-9 360880.27 5313942.17 604 6.14:20:13 9/19/2013 5TH Rejected Failed 5.8 .6 reserved REF-9 360881.18 5313942.17 604 5.6 14:30:13 9/19/2013 5TH Rejected Failed 5.8 .6 REF-9 360881.24 5313942.16 604 3.0 14:40:26 9/19/2013 STH Rejected Failed 5.8 .6 REF-9 360861.24 5313928.87 604 27 14:47:10 9/19/2013 STH Rejected Failed 5.8 .6 REF-98 360301.31 5310368.06 607 23 16:37:11 9/19/2013 STH Rejected Failed 5.8 .6 REF-98 363016.15 5310393.33 607 43 16:53:25 9/19/2013 STH Rejected Failed 5.8 .6 REF-10 356105.12 531039.33 607 43 16:32:25 9/19/2013 STH Rejected Failed 5.8 .6 Cobables	REF-8 REF-8 REF-9 REF-9 REF-9 REF-9 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77 360856.06 360881.44 360881.26	5299478.77 5299485.27 5299478.66 5299476.1 5313934.24 5313919.17 5313943.04 5313941.98 5313934.45	632 632 632 632 604 604 604 604	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:26 15:16:17 13:23:16	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH 11TH 12TH 13TH 1ST	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected Rejected Rejected Rejected Rejected Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side
REF-9 360880.27 5313942.17 604 6.6 14.26:13 9/19/2013 6TH Rejected Failed 5 & 6, rocks in sampler REF-9 360880.92 5313942.26 604 5.6 14.30:13 9/19/2013 RTH Rejected Failed 5 & 6 REF-9 360867.62 5313936.1 604 30.1 14.40:26 9/19/2013 RTH Rejected Failed 5 & 6 REF-9 36081.24 5313936.1 604 27 14.47:10 9/19/2013 RTH Rejected Failed 6 REF-9B 36301.12 5310366.0 607 23.1 16:37:11 9/19/2013 STN Rejected Failed 5 & 6 REF-9B 36301.12 5310392.33 607 43 16:53:25 9/19/2013 SND Rejected Failed 5 & 6 (Cobbles) REF-10 356105.17 5312524.49 601 6.8 10:04:10 9/18/2013 STD Rejected Failed 5 & 6 REF-10 356103.5 5312529.02 601 6.8 10:09:02	REF-8 REF-8 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77 360856.06 360881.44 360881.26 360848.1	5299478.77 5299485.27 5299476.66 5299476.1 5313934.24 5313919.17 5313943.04 5313941.98 5313934.45	632 632 632 632 604 604 604 604 604	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1 34.5	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:26 15:16:17 13:23:16 13:48:35	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH 11TH 12TH 13TH 1ST 2ND	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side Failed 5 & 6, no material to sample
REF-9 360881.18 5313942.17 604 6 14:26:13 9/19/2013 6TH Rejected Failed 5 & 6 REF-9 36088.09 5313942.26 604 5.6 14:30:13 9/19/2013 BTH Rejected Failed 5 & 6 REF-9 36086.72 5313936.1 604 30.1 14:40:26 9/19/2013 BTH Rejected Failed 6 REF-9 360861.24 5313928.87 604 27 14:47:10 9/19/2013 BTH Rejected Failed 6 REF-9 3604.11 531036.62 607 23 16:37:11 9/19/2013 BTH Rejected Failed 5 & 6 REF-9 3604.11 531038.06 607 3.5 16:47:59 9/19/2013 BTH Rejected Failed 5 & 6 REF-9 360301.12 531038.06 607 3.5 16:47:59 9/19/2013 BTD Rejected Failed 5 & 6 REF-9 360301.12 531038.06 607 3.5 16:47:59 9/19/2013 BTD Rejected Failed 5 & 6 REF-10 36010.15 5310392.33 607 43 16:53:25 9/19/2013 BTD Rejected Failed 5 & 6 REF-10 36010.15 5310352.24 601 6.8 10:06:40 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36010.64 5312524.12 601 6.8 10:06:40 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36010.65 531252.90 601 6.8 10:06:40 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36007.65 531252.90 601 6.10:11:08 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36007.05 531246.59 601 22.8 10:19:30 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36007.05 531246.59 601 24.8 10:24.42 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36007.05 531249.04 601 24.8 10:24.24 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36007.05 531249.05 601 24.8 10:24.24 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.21 531249.8 601 24.8 10:24.24 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.21 531249.8 601 24.8 10:24.24 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.21 531249.8 601 24.8 10:24.24 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.21 531249.8 601 24.8 10:23.9 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.21 5311249.8 601 24.8 10:23.9 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.21 5311249.8 601 24.8 10:23.9 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.21 5311249.8 601 24.8 10:23.9 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.2 5311249.8 601 24.8 10:23.9 9/18/2013 BTD Rejected Failed 5 & 6 REF-10 36606.2 5311249.8 601 24.8 10:23.9 9/18/2013 BTD Rejected Failed 5 & 6 REF-1	REF-8 REF-8 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77 360856.06 360881.44 360881.26 360848.1 360851.09	5299478.77 5299485.27 5299476.1 5313934.24 5313919.17 5313943.04 5313941.98 5313922.15 5313922.15	632 632 632 632 604 604 604 604 604 604	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1 34.5 36 26.8	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:26 15:16:17 13:23:16 13:48:35 13:54:36	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH 11TH 12TH 13TH 1ST 2ND 3RD	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side Failed 5 & 6, on material to sample Failed 5 & 6
REF-9 360880.92 3133942.6 604 5.6 14:30:13 9/19/2013 7TH Rejected Failed 5 & 6 REF-9 360867.62 5313936.1 604 30.1 14:40:26 9/19/2013 BTH Rejected Failed 6 Ref-98 363041.3 330356.52 607 23 16:37:11 9/19/2013 IST Rejected Failed 6 & 6 Ref-98 36301.12 5310380.6 607 3.5 16:47:59 9/19/2013 IST Rejected Failed 5 & 6 Ref-98 36301.12 5310380.3 607 43 16:57:29 9/19/2013 ND Rejected Failed 5 & 6 Ref-10 356105.17 5312524.6 601 6.8 10:04:10 9/18/2013 ND Rejected Failed 5 & 6 Ref-10 356105.17 5312524.12 601 6.8 10:04:10 9/18/2013 1ST Rejected Failed 5 & 6 Ref-10 356105.12 3312482.5 601 29.19/2013 3RD Rejected Failed 5 & 6 Ref-10 35600.5 5312524.12 </td <td>REF-8 REF-8 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9</td> <td>391935.98 391927.95 391939.96 391935.26 360841.77 360856.06 360881.44 360881.26 360848.1 360851.09 360861.78</td> <td>5299478.77 5299485.27 5299476.1 5313934.24 5313943.04 5313943.04 5313941.98 5313922.15 5313929.37</td> <td>632 632 632 632 604 604 604 604 604 604 604</td> <td>50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1 34.5 36 26.8 6.4</td> <td>14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:26 15:16:17 13:23:16 13:48:35 13:54:36</td> <td>9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013</td> <td>4TH 5TH 6TH 7TH 10TH 11TH 12TH 13TH 1ST 2ND 3RD 4TH</td> <td>ACCEPTED ACCEPTED Rejected ACCEPTED Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACEPTED</td> <td>Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side Failed 5 & 6, no material to sample Failed 5 & 6.</td>	REF-8 REF-8 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9 REF-9	391935.98 391927.95 391939.96 391935.26 360841.77 360856.06 360881.44 360881.26 360848.1 360851.09 360861.78	5299478.77 5299485.27 5299476.1 5313934.24 5313943.04 5313943.04 5313941.98 5313922.15 5313929.37	632 632 632 632 604 604 604 604 604 604 604	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1 34.5 36 26.8 6.4	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:26 15:16:17 13:23:16 13:48:35 13:54:36	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013	4TH 5TH 6TH 7TH 10TH 11TH 12TH 13TH 1ST 2ND 3RD 4TH	ACCEPTED ACCEPTED Rejected ACCEPTED Rejected Rejected Rejected Rejected Rejected Rejected Rejected Rejected ACEPTED	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side Failed 5 & 6, no material to sample Failed 5 & 6.
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REF-10B 356577.41 5311257.07 601 28.4 13:32:19 9/18/2013 7TH Rejected Failed 6 REF-10B 356570.62 5311259.53 601 32.5 13:39:06 9/18/2013 8TH Rejected Failed 5 & 6	REF-8 REF-8 REF-9 REF-10	391935.98 391927.95 391939.96 391939.52 3608814.77 360881.26 360881.26 360881.36 360881.36 360881.36 360881.36 360881.36 360881.36 360881.38 360881.28 360881.38 360881.38 360881.38 360881.38 360881.38 356081.38 356051.38 356057.45	5299478.77 5299485.27 5299485.27 5299476.1 5313934.24 5313919.17 5313941.98 5313943.45 5313942.95 5313942.26 5313942.26 5313942.26 5313942.27 5313942.26 5313942.27 5313942.26 5313942.27 5313942.27 5313942.27 5313942.27 5313942.27 5313942.27 5313942.27 5313942.27 5313942.27 5312424.27 5312524.27 5	632 632 632 632 604 604 604 604 604 604 604 607 607 601 601 601 601 601 601 601 601 601 601	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1 34.5 36 26.8 6.4 6.6 6 5.6 30.1 27 23 3.5 43 6.8 6.8 5.9 6.2 29.8 27.4 24.8 24.6 25 29.1 30 16.8 16.8 16.8 28.9 26.8	14:27:38 14:48:31 15:08:01 15:12:02 15:01:16 15:12:02 15:01:16 15:11:26 15:16:17 13:23:16 13:43:35 13:54:36 14:00:21 14:20:16 14:20:16 14:20:16 14:20:16 14:20:16 14:20:16 14:20:16 16:37:11 16:47:59 10:04:10 10:05:45 10:09:02 10:10:33:06 10:37:31 14:50:43 10:33:06 10:37:31 14:10:49 14:10:49 11:19:25 11:26:07	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/18/2013	4TH 5TH 6TH 10TH 12TH 12TH 12TH 12TH 12TH 15T 2ND 3RD 4TH 5TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 15T 2ND 15T 15T 2ND 15T 15T 2ND 15T 15T 15T 15T 15T 15T 2ND	ACCEPTED ACCEPTED ACCEPTED Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side Failed 5 & 6, on material to sample Failed 5 & 6, no material to sample Failed 5 & 6, no material to sample Failed 5 & 6, no material to sample Failed 5 & 6 Accepted Failed 5 & 6 Failed 6
REF-10B 356570.62 5311259.53 601 32.5 13:39:06 9/18/2013 8TH Rejected Failed 5 & 6	REF-8 REF-8 REF-9 REF-10	391935.98 391927.95 391937.96 391939.96 391935.26 360841.77 360856.06 360881.44 360881.26 360881.43 360881.26 360881.38 360880.52 360881.38 360880.52 360881.38 360880.52 360881.38 360880.52 360881.38 360880.52 360881.38 360880.52 360881.38 360861	5299478.77 5299485.27 5299485.27 5299476.1 5313934.24 5313919.17 5313941.98 5313934.45 5313941.98 5313934.25 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 5313942.26 53124.26 531242.26 531242.26 531242.26 531242.26 531242.26 531242.26 531242.26 531242.26 531242.26 531242.26 531242.26 531242.26 53124.36 53125.26	632 632 632 632 604 604 604 604 604 604 604 604 607 607 607 601 601 601 601 601 601 601 601 601 601	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1 34.5 36 26.8 6.4 6.6 6 5.6 30.1 27 23 3.5 43 6.8 5.9 6 29.8 27.4 24.8 24.6 25 29.1 30 16.8 16.8 44.6 28.9 26.8	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:04:49 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 15:11:16 13:48:35 13:48:35 13:48:35 14:40:26 14:26:13 14:40:26 14:47:10 10:05:45 10:09:02 10:28:38 10:19:30 10:24:42 10:28:38 10:37:31 13:53:46 10:37:31 14:10:49 14:37:10 14:44:49 14:37:10 14:44:49 14:37:10 14:44:49 11:19:25 11:26:07 11:34:08 12:10:45 12:10:45 12:10:45	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/18/2013	4TH 5TH 6TH 10TH 11TH 12TH 13TH 15T 2ND 3RD 4TH 5TH 6TH 15T 2ND 3RD 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	ACCEPTED ACCEPTED ACCEPTED Rejected ACCEPTED	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side Failed 5 & 6, on material to sample Failed 5 & 6, rocks in sampler Failed 5 & 6 Failed 7 Failed 7 Failed 8
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REF-10B 356569.61 5311259.81 601 28.4 13:47:27 9/18/2013 9TH Rejected Failed 6	REF-8 REF-8 REF-8 REF-9 REF-10	391935.98 391927.95 391939.96 391939.52 3608814.77 360881.26 360881.26 360881.26 360881.26 360881.27 360881.27 360881.27 360881.28 360881.28 360881.28 360881.28 360881.28 360881.28 360881.28 360881.28 360881.28 360861.24 363016.12 356105.12 356105.12 356105.12 356105.12 35605.35 35605.35 35605.35 35605.35 35656.33 356564.38 356565.33 356557.35 356557.35 356557.35 356557.35	5299478.77 5299485.27 5299485.27 5299478.65 5299476.1 5313934.24 5313991.17 5313941.98 531394.35 531392.37 5313941.26 531392.37 5313941.26 531392.37 5313941.26 531392.37 5313941.26 531392.37 531394.27 531394.26 531394.27 531394.27 531394.27 531394.27 531394.27 531394.27 531252.40 53125	632 632 632 632 604 604 604 604 604 604 604 604 607 607 601 601 601 601 601 601 601 601 601 601	50.8 50.4 49.6 48.2 20.2 40.5 5.4 5.1 34.5 36 26.8 6.4 6.6 6 5.6 30.1 27 23 3.5 43 6.8 6.8 6.9 6.9 29.8 27.4 24.4 24.6 25 29.1 30 16.8 16.8 16.8 28.9 26.8 28.4 27.5 26.8	14:27:38 14:48:31 15:06:01 15:12:02 15:01:16 15:12:02 15:01:16 15:11:26 15:16:17 13:23:16 14:00:21 14:20:16 14:26:13 14:30:13 14:40:26 14:47:10 16:37:11 16:47:59 10:04:10 10:05:45 10:09:02 10:11:08 10:19:30 10:24:42 10:19:30 10:24:42 11:19:25 11:26:07 11:19:25 11:26:07 11:19:25 11:26:07 11:34:08 12:10:45 12:10:23 12:10:45	9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/16/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/19/2013 9/18/2013	4TH 5TH 6TH 10TH 12TH 13TH 15T 2ND 3RD 4TH 5TH 6TH 15T 2ND 3RD 4TH 5TH 6TH 15T 2ND 15T 2ND 3RD 4TH 15T 2ND 3RD 4TH 5TH 15T 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH 11TH 12TH 12TH 12TH 13TH 13TH 14TH 15T 2ND 3RD 4TH 5TH 15T 2ND 3RD 4TH 5TH 15T 3RD 4TH 5TH 15T 2ND 3RD 4TH 5TH 15T 3RD 4TH 7TH	ACCEPTED ACCEPTED ACCEPTED Rejected	Accepted Accepted Failed 5 & 6 Accepted Rock in sampler Rocks in sampler Incomplete closure of sampler Failed 4 & 6, extreme winnowing Failed 5 & 6, sand & gravel on one side Failed 5 & 6, no material to sample Failed 5 & 6 (so the sample failed 5 & 6 Failed 5 & 6 (so the sample failed 5 & 6 Failed 6
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					-				
		erence Samp							
Trib-1	409564.6	5365249.9	686	1	10:32	9/26/2013	All	Accepted	ACCEPTED, some overlying water
Trib-2	417919.4	5389775.8	705	1	9:42	10/7/2013	all	Accepted	Accepted
Trib-3	412684	5363469	685	1	9:05	10/1/2013	all	Accepted	Accepted
Trib-4	428199.07	5408255.78	721	1	10:40	10/9/2013	all	Accepted	Accepted
Trib-5	430709.3	5412498.3	726	1	13:14	10/9/2013	all	Accepted	Downstream extent
Trib-5	430681.7	5412512.1	726	1	13:14		all	Accepted	Upstream extent
Trib-6	441385.54	5416571.09	732	1	10:45	10/10/2013		Accepted	Upstream extent
Trib-6	441361.98	5416585.64	732	2	10:45	10/10/2013			Downstream extent
		nple Locatio			10.43	10/10/2013	dii	Accepted	Downstream extent
LAL-1	418705.15	5492239.22		45.3	9:44	9/8/2013	1ST	Detected	F-:14 F 0 C
								Rejected	Failed 5 & 6
LAL-1	418672.41	5492260.34		51.1	9:48	9/8/2013		Rejected	Failed 5 & 6, winnowing
LAL-1	418683.68	5492270.9	Canada	56	10:02		3RD	Rejected	Failed 5 & 6
LAL-1	418670.65	5492243.1		43.4	10:10	9/8/2013		Rejected	Failed 5 & 6
LAL-1	418669.95	5492245.56		44.5	10:13		5TH	Rejected	Failed 5 & 6
LAL-1	418671.55	5492244.11		44.8	10:14		6TH	Rejected	Failed 5 & 6
LAL-1	418638.03	549229.99		60.8	10:20	9/8/2013	7TH	Accepted	Accepted
LAL-2	418557.47	5492502.83	Canada	24	11:36:49	9/8/2013	1ST	Rejected	Failed 5 & 6
LAL-2	418537.24	5492506.79	Canada	27.5	11:40:51	9/8/2013	2ND	ACCEPTED	Failed 4, edges low, middle humped. On hold.
LAL-2	418523.05	5492568.16	Canada	52.1	12:18:07	9/8/2013	3RD	Rejected	Failed 5 & 6, incomplete closure
LAL-2	418517	5492554.97	Canada	62	12:22:19	9/8/2013	4TH	Rejected	Failed 5 & 6, sand
LAL-2	418525.8	5492567.06	Canada	62.3	12:33:13		5TH	Rejected	Failed 5 & 6, mostly organic debris
LAL-2	418542.85	5492573.66		39.4	12:44:16	9/8/2013		Rejected	Failed 4 & 6, sample washout, incomplete closure
LAL-2	418545.79	5492670.51		26.4	12:50:09	9/8/2013		Rejected	Failed 5 & 6, incomplete closure
LAL-2	418549.64		Canada	22.6	12:54:48		8TH	Rejected	Failed 5 & 6, all sample was lost
LAL-2	418587.31	5492640.95	Canada	39.6	13:22:58	9/8/2013	9TH	Rejected	Incomplete closure of sampler
LAL-3	418379.62			7.1	15:21:23		10TH		ACCEPTED, sample depth 5.5"
				19		9/8/2013	_		
LAL-3	418373.18	5493663.09			13:50:34			Rejected	Failed 5 & 6
LAL-3	418377.99			16	13:54:48		2ND	ACCEPTED	ACCEPTED, sample penetration 5", need more volume
LAL-3	418354.84	5493636.02	Canada	8	14:22:33		3RD	Rejected	Failed 5 & 6
LAL-3	418371.03	5493643.06	Canada	7	14:25:02	9/8/2013	4TH	Rejected	Failed 5 & 6
LAL-3	418350.62	5493728.24		10	14:28:39	9/8/2013			ACCEPTED, sample penetration 4", need more volume
LAL-3	418323.51	5493716.27	Canada	10	14:43:51	9/8/2013		Rejected	Failed 5 & 6, no recovery
LAL-3	418321.05	5493720.5	Canada	10.4	14:47:00	9/8/2013	7TH	Rejected	Failed 5 & 6, rocks in sampler
LAL-3	418379.48	5493661.36	Canada	7	14:52:42	9/8/2013	8TH	Rejected	Failed 5 & 6, no recovery, rock in sampler
LAL-3	418376.28	5493643.62	Canada	7	15:01:44	9/8/2013	9TH	ACCEPTED	ACCEPTED
LAL-4	435078.23	5466801.7	Canada	25.9	9:48:26	9/7/2013	1ST	Rejected	Failed 5 & 6
LAL-4	435059.03	5466779.75	Canada	38.8	9:54:43	9/7/2013	2ND	Rejected	Failed 6, Winnowing
LAL-4	435075.49	5466831.88	Canada	16.2	10:06:48	9/7/2013	3RD	ACCEPTED	GOOD GRAB
LAL-4	435080.56	5466832.57	Canada	17.2	10:49:14	9/7/2013	4TH	ACCEPTED	GOOD GRAB
LAL-5	435189.77	5466573.56	Canada	53.5	11:43	9/7/2013	1ST	Rejected	Failed 6, no sediment
LAL-5	435187.02	5466554.9			NR	9/7/2013		ACCEPTED	GOOD GRAB
LAL-6	435361.53	5466509.9		32.5	14:54:35	9/7/2013	10TH	ACCEPTED	GOOD GRAB
LAL-6	435323.12	5466502.77		37.5	13:17:12		1ST	ACCEPTED	COLLECTED BUT TAKING ANOTHER FOR VOLUME
LAL-6	435347.26	5466492.34		39.4	13:32:29	9/7/2013			Failed 5 & 6, incomplete closure
LAL-6	435347.26	5466472.58		43.2	13:32:29	9/7/2013		Rejected Rejected	Failed 5 & 6, Incomplete closure Failed 5 & 6, penetration at angle
LAL-6	435303.18	5466460.51		43.2	13:36:07		4TH	Rejected	Failed 5 & 6, incomplete closure
	435302.81			43.2	13:44:13				
LAL-6			Canada			9/7/2013	5TH	Rejected	Rejected
LAL-6	435300.62	5466500.57	Canada	40.8	14:06:47	9/7/2013	6TH	Rejected	Rejected
LAL-6	435323.12	5466508.8		38.8	14:11:27	9/7/2013	7TH	ACCEPTED	Failed 5
LAL-6	435324.76	5466525.81		28.8	14:45:22	9/7/2013		Rejected	Failed 6, incomplete closure
LAL-6	435332.99	5466523.07		28.5	14:50:25	9/7/2013		Rejected	Failed 6, incomplete closure
G-1	448615.6	5450398.77	Canada	26.3	11:53:33		1ST	Rejected	Failed 5 & 6
G-1	448669.81	5450412.02	Canada	19.3	12:00:32	9/5/2013	2ND	Rejected	Failed 5 & 6
G-1	448679.45	5450402.39	Canada	9	12:06:01	9/5/2013	3RD	Rejected	Failed 5 & 6
G-1	448666.2	5450386.72	Canada	9	12:12:19	9/5/2013	4TH	Rejected	Failed 6
G-1	448666.53	5450380.65	Canada	10	12:53:01	9/5/2013	5TH	Rejected	Failed 6, REFUSAL DUE TO WINNOWING ON EDGES
G-1	448664.06	5450379.42		10.1	13:33:48		6TH	ACCEPTED	GOOD GRAB
G-2	448698.6	5450338.71	Canada	16.3	15:32:50	9/5/2013	1ST	Rejected	Failed 6, ROCK IN GRAB
G-2	448710.94	5450338.71		16.3	15:36:54	9/5/2013		ACCEPTED	GOOD GRAB
G-3	448586.2	5450257.14		28.7	9:19:40		1ST	Rejected	Failed 5, Sticks and some sand present
G-3	448596.95	5450270.32		22.3	9:28:56	9/6/2013		ACCEPTED	GOOD GRAB
G-4	448741.72	5450191.35	Canada	15.2	10:33:55	9/6/2013	1ST	Rejected	Vegetation present
G-4	448733.79	5450176.27		13.2	10:39:07		2ND	Rejected	Failed 6, penetration at angle
G-4	448736.17	5450215.55		22.3	10:43:44	9/6/2013		Rejected	Failed 5 & 6
G-4	448723.87	5450204.05	Canada	14.8	10:47:08	9/6/2013	41H	ACCEPTED	GOOD GRAB, small pocket of gray area in sample at ~ 6"

APPENDIX H DAILY RINSATE SAMPLE COLLECTION FORMS



						
Sample Id: <u>FP</u> -	7-C3-TA		Sampling Vessel: _	/ AHOMA		
Date Collected:	9/12/13		Time Collected: _	1402		
Samplers: MY/MK Equipment			# Sample Containers: (unfiltered Sample)	6		
Evaluated: Van Ve	un/tub/50	oops	Requested Analyses:	X Total TAL Metals (EPA 6020A)		
				X Total TAL Metals (EPA 6010C)		
TAL Metals using	EPA Method 6020A:		per, lead, manganese, nic	n, beryllium, cadmium, chromium, ckel, selenium, silver, thallium,		
TAL Metals using	EPA Method 6010C:	calcium, iro	on, magnesium, potassium	n, and sodium		
List all Locations Sample	ed by this Sampling Ves	ssel on this	Date:			
78-	C3			<u>.</u>		
7-0						
Additional Notes or Pho	tos					
-/ -	VAN VEE	EN				
-2 -	-2 - Scoop -3 - Tub					
7						
-3 -	Tub					

Field Supervisor Initials

DH

Date: 9/13/13

Sample Lead Initials

Date: 9/12/1

Sample Id: ER-REF-7	Sampling Vessel: TAHOMA					
Date Collected: 9/13/13	Time Collected: 1713					
Samplers: VESTER YOUNG KELLY	# Sample Containers: (unfiltered Sample)					
Equipment SEE BELOW	Requested Analyses: X Total TAL Metals (EPA 6020A)					
	X Total TAL Metals (EPA 6010C)					
•	, antimony, arsenic, barium, beryllium, cadmium, chromium, oper, lead, manganese, nickel, selenium, silver, thallium, , and zinc					
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassium, and sodium					
List all Locations Sampled by this Sampling Vessel on this Date: Section 7-B3, REF-7						
Additional Notes or Photos added Hy fo	chain -of -custody					
ER-REF-7-TA-	- 1 Van Veen					
ER-REF-7-TA-	2 Scoops					
ER-REF-7- TA-	3 Screen Tub					
ER- REF-7- TA-	4 Fub m Screen					
ER-REF-7- TA-5	MIXER					

Field Supervisor Initials

19#

Date: 9/9//3

Sample Lead Initials

Date: 9/13

Sample Id: ER-REF-8-TA	Sampling Vessel: _	TAHOMA				
Date Collected: 9/16/13	Time Collected: _	1620				
Samplers: MW/AP/MS	# Sample Containers: (unfiltered Sample)					
Equipment Evaluated: SEE BELOW	Requested Analyses:	X Total TAL Metals (EPA 6020A)				
		X Total TAL Metals (EPA 6010C)				
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc						
TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium						
List all Locations Sampled by this Sampling Vessel on this Date:						
So 7-C1, 7-CZ, REF8						
Additional Notes or Photos						
ER-REF-S-TA-	,	n Veen				
ER-REF-8-TA-Z	50	100 PS				
ER-REF-8-TA-3		IB				
ER- REF-8-TA-4	Mi	XER				

Field Supervisor Initials

Sample Lead Initials

19A

Date: 9/16/13

Sample Id: ER-REF 106-TA	Sampling Vessel:	TAHOMA				
Date Collected: 9/18/13	Time Collected:	1621				
Samplers: <u>VETTER / PANTHER STEGNER</u>	# Sample Containers: (unfiltered Sample)	8				
Evaluated: See below	Requested Analyses:	X Total TAL Metals (EPA 6020A)				
		X Total TAL Metals (EPA 6010C)				
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc						
TAL Metals using EPA Method 6010C: calcium, ir	TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium					
List all Locations Sampled by this Sampling Vessel on thi	s Date:					
86-02, REF 10, REF-106						
Additional Notes or Photos						
ER- REF- 106-TI	,	VEEN				
ER-REF-106-TA-Z Scook						
ER-REF-106-TA-3 TUB						
ER-REF-106- TA-	-4 Mi	XER				

Field Supervisor Initials

Sample Lead Initials

Sample Id: ER-REF-9-TA	Sampling Vessel: TAHOMA					
Date Collected: 9/19/13	Time Collected: 1709					
Samplers: PANTHON STEGNER	# Sample Containers: (unfiltered Sample)					
Equipment SEE BELOW	Requested Analyses: X Total TAL Metals (EPA 6020A)					
	X Total TAL Metals (EPA 6010C)					
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc						
TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium						
List all Locations Sampled by this Sampling Vessel on this Date:						
8-B2, REF-9						
Additional Notes or Photos						
RINEATES AS FOLLOWS						
ER-REF-9-TA-1 Grab						
ER-REF-9-TA-Z Scoop						
ER-REF-9-TA-3 Screen						
ER-REF-9-TA						
ER-REF-9-TA	I I U D					

Field Supervisor Initials

Sample Lead Initials

Sample Id: <u>ER-52-8-81</u>	Sampling Vessel: TAHOMA
Date Collected: 9/20/13	Time Collected: 16/5
Samplers: PANTHER STEGNER	# Sample Containers:
Evaluated: SEE BELOW	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
cobalt,	um, antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, nickel, selenium, silver, thallium, um, and zinc
TAL Metals using EPA Method 6010C: calcium	n, iron, magnesium, potassium, and sodium
list all Locations Sampled by this Sampling Vessel on	this Date:
8-CZ, 8-I	31
Additional Notes or Photos	, W
ER-SE-8-BI-TA	
ER-SE-8-BI-TA	-2 Scoops
ER-SE-8-B1-TA-	-3 Tub
5'R-58-8-BI- TA	
5R-5E-5-B/- TA-	
only used at 1	8-02. Used manual grab Teton before ER collected
Time at transle	1401
1534- notified by 7 power grab.	TIETON they are returning will decon on TAHOMA + collec-
The second secon	9/24/13
Sample Lead Initials Date:	9/20/13

Sample ld:	ER-6-C3-TA	Sampli	ng Vessel: _	TAHUMA
Date Collecte	d: <u>9/24/13</u>	Time C	ollected: _	1613
Samplers:	JR/MK		ole Containers: red Sample)	10
Equipment Evaluated:	SEE BELOW	Reques	sted Analyses:	X Total TAL Metals (EPA 6020A)
				X Total TAL Metals (EPA 6010C)
TAL M	Metals using EPA Method 6020A:		, manganese, ni	n, beryllium, cadmium, chromium, ckel, selenium, silver, thallium,
TAL N	Metals using EPA Method 6010C:	calcium, iron, magn	esium, potassiur	n, and sodium
List all Locati	ions Sampled by this Sampling Ve	ssel on this Date:		
	6-B5, 6	-C3		
Additional No	otes or Photos			
	ER-6-63-	TA-2		(Power)
	ER-6-C3-		~	Tub
	EA-6- C3-	TA-Y	SMI	ALL TUPS
8	ER-6- C3-	TA-5	MIXE	R
		ı		

Field Supervisor Initials

Sample Lead Initials M

Date: 9/24/13

Date:

SE-6-R3 AHOMA Sampling Vessel: Time Collected: Date Collected: Samplers: # Sample Containers: (unfiltered Sample)

Equipment Requested Analyses: X Total TAL Metals (EPA 6020A) Evaluated:

aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium,

cobalt, copper, lead, manganese, nickel, selenium, silver, thallium,

X Total TAL Metals (EPA 6010C)

vanadium, and zinc

TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium

List all Locations Sampled by this Sampling Vessel on this Date:

TAL Metals using EPA Method 6020A:

6-B1, 6-B3, 6-R3

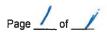
Additional Notes or Photos

ER-6-R3-TA-1 Grab (power) ER-6-R3-TA-Z SCOOP ER-6-R3-TA-3 TUB ER-6-R3-TA-4 MIXER

Field Supervisor Initials

Sampling Vessel: Date Collected: 9-27-13 Time Collected: # Sample Containers: Samplers: (unfiltered Sample) Equipment Requested Analyses: X Total TAL Metals (EPA 6020A) Evaluated: X Total TAL Metals (EPA 6010C) aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, TAL Metals using EPA Method 6020A: cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium List all Locations Sampled by this Sampling Vessel on this Date: Additional Notes or Photos GRAB ER-REF-5B-TA-1 TUB ER-REF-SB-TA-2 SCOOP ER-REF-5B-TA-3 MIXER ER-REF-5B-TA-4 SCREEN ER-REF-SB-TA-5

Field Supervisor Initials



Vessel: Jahoma ected: //o 5 Containers: Sample) d Analyses: X Total TAL Metals (EPA 6020A) X Total TAL Metals (EPA 6010C)
Containers: Sample) d Analyses: X Total TAL Metals (EPA 6020A)
Containers: Sample) d Analyses: X Total TAL Metals (EPA 6020A)
Sample) d Analyses: X Total TAL Metals (EPA 6020A)
X Total TAL Metals (EPA 6010C)
rsenic, barium, beryllium, cadmium, chromium, nanganese, nickel, selenium, silver, thallium,
um, potassium, and sodium
(Van Veen) Scoop) Tub
9

Field Supervisor Initials

Sample Lead Initials

Date:

Date:

Sample id: ER-Ref-4-TA	Sampling Vessel: Tahoma
Date Collected: <u>9-3t-13</u>	Time Collected: 1514
Samplers: TR/MH/BM	# Sample Containers: (unfiltered Sample)
Equipment SCC DC/DLJ	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
	, antimony, arsenic, barium, beryllium, cadmium, chromium, pper, lead, manganese, nickel, selenium, silver, thallium, , and zinc
TAL Metals using EPA Method 6010C: calcium, ir	ron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this 5-C2, Ref-Y	s Date.
Additional Notes or Photos (Grab) ER-Ref-4- (Tub) ER-Ref-4-Ti (Scoop) ER-Ref- (4) (Mixer) ER-Ref-4	A-2 4-TA-3

Field Supervisor Initials

Sample Lead Initials

Date: 10/01/15

Date:



Sample Id: $ER-Ref-3-TA$	Sampling Vessel: Tahoma
Date Collected: 10-1-13	Time Collected: 1530
Samplers: Rapp / Hale / Mayros	# Sample Containers: (unfiltered Sample)
Evaluated: See be out	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
The same of the sa	, antimony, arsenic, barium, beryllium, cadmium, chromium, pper, lead, manganese, nickel, selenium, silver, thallium, , and zinc
TAL Metals using EPA Method 6010C: calcium, ii	ron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this $4B-C4$, $Ref-3$	
Additional Notes or Photos	TA 1
(Grab) ER-Ref-3-	1/4-1
2 ER-ReA-3-TA-2 ((tub)
3) ER-Ref- 3-TA-3 ((3COOP)
(4) ER-Ref-3-TA-4(mixer)
•	

Field Supervisor Initials

Sample Lead Initials

Date: 10/9/13

Date: / 0 -/-/



Sample Id: ER 4-C5-TA Sampling Vessel: Tahoma
Date Collected: 10-4-13 Time Collected: 1544
Samplers: Repp/Mayros/McDanie / # Sample Containers: 8 (unfiltered Sample)
Evaluated: Sec below - Requested Analyses: X Total TAL Metals (EPA 6020A)
X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc
TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this Date:
4B-C2; 4-C4; 4-C5
Additional Notes or Photos
ER-4-C5-TA-1 (grab). ER-4-C5-TA-2 (SCOOP)
ER-4-C5-TA-2 (SCOOP)
ER-4-C5-TA-3 CHUP)
ER-4-C5-TA-3 (tub) ER-4-C5-TA-4 (MIXER)
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Field Supervisor Initials

2014

Date: 10/6/13

Sample Lead Initials

Date: 10-4-1-

Sample Id: <u>ER-4-C3-T74</u>	Sampling Vessel: Tahoma		
Date Collected: 10/5/13	Time Collected: 1553		
Samplers: TR/BM/SM	# Sample Containers: (unfiltered Sample)		
Evaluated: See below	Requested Analyses: X Total TAL Metals (EPA 6020A)		
*	X Total TAL Metals (EPA 6010C)		
TAL Metals using EPA Method 6020A: aluminum, cobalt, cop vanadium,	antimony, arsenic, barium, beryllium, cadmium, chromium, oper, lead, manganese, nickel, selenium, silver, thallium, and zinc		
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassium, and sodium		
List all Locations Sampled by this Sampling Vessel on this Date: 4-Cb; 4-B3; 4-C3			
Additional Notes or Photos VER - 4-C3-TA-/ BR-4-C3-TA-2 BER-4-C3-TA-3 (4) ER-4-C3-TA-4	(scoop) (tub)		

Field Supervisor Initials

Sample Lead Initials

Date: 10/6/13

Date: 10/5/1

Sample Id: <u>ER-4-(1-7F)</u>	Sampling Vessel: Tahoma
Date Collected: 10/57/13	Time Collected: 1545
Samplers: TR/BM/5M	# Sample Containers: / C (unfiltered Sample)
Equipment Evaluated: - See below -	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
cobalt, e	um, antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, nickel, selenium, silver, thallium, um, and zinc
TAL Metals using EPA Method 6010C: calcium	, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on 6	tnis Date:
Additional Notes or Photos () (grab) ER-4-CI-TA () (scoop) ER-4-CI- () (mixer) ER-4-CI- () (tub) ER-4-CI- () (screen) ER-4-CI- ()	TA-2 -TA-3 TA-4

Field Supervisor Initials

Sample Lead Initials

Date: 10/8/13

Date: /0/7



Sample Id: ER-3B-C2-TA	Sampling Vessel: Tahoma
Date Collected: 10/8/13	Time Collected: 16/0
Samplers: Rapp/Mawos/M.Daniel	# Sample Containers: (unfiltered Sample)
Equipment Evaluated: See below!	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
	antimony, arsenic, barium, beryllium, cadmium, chromium, per, lead, manganese, nickel, selenium, silver, thallium, and zinc
TAL Metals using EPA Method 6010C: calcium, iro	n, magnesium, potassium, and sodium
4-R5, 3B-C4, 3B-C2	
Additional Notes or Photos (TER-3B-C2-TA-1 (grab)) o)
Q ER-3B -(2-TA-2 (500)	
3) ER-3B- C2-TA-3 (MIXE	()
9 ER-3B-C2-TA-4 (tub) 3 ER-3B-C2-TA-5 (SCFEC	
3 ER-3B-C2-TA-5 SCREE	n)
=	

Field Supervisor Initials

Sample Lead Initials

Date: 10//8/13

Date: 10/8/1

Sample Id: ER-3B-R2-MA	Sampling Vessel: Mazama
Date Collected: 10/14/13	Time Collected: 1604
Samplers: TR/BM/M5	# Sample Containers: / / / (unfiltered Sample)
Equipment Sec below	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
cot	minum, antimony, arsenic, barium, beryllium, cadmium, chromium, palt, copper, lead, manganese, nickel, selenium, silver, thallium, nadium, and zinc
TAL Metals using EPA Method 6010C: cal	cium, iron, magnesium, potassium, and sodium
3B-R1, 3B-R2	
Additional Notes or Photos (DER-3B-R2-MA-	1 (grab)
QER-3B-R2-MA-	
3ER-3B-R2-MA-	3 (406)
DER-3B-R2-MA-	4 (screen)
5) BR-3B-R2-MA-	5 p 10/14/13
r .	
1	

Field Supervisor Initials

Sampling Vessel: Time Collected: Date Collected: # Sample Containers: Samplers: (unfiltered Sample) Equipment Requested Analyses: X Total TAL Metals (EPA 6020A) Evaluated: X Total TAL Metals (EPA 6010C) TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc calcium, iron, magnesium, potassium, and sodium TAL Metals using EPA Method 6010C: List all Locations Sampled by this Sampling Vessel on this Date: 3,3-R3,3-C2,3-C1 ER-3-CI-MA-1 (grab) ER-3-CI-MA-2 (scoop) ER-3-CI-MA-3 (tub) Additional Notes or Photos

Field Supervisor Initials

Sample Lead Initials

Date: 10/15//3

Date: 10/15/1



-		
Sample Id: ER-2B-C3-MA	Sampling Vessel: MaZaMQ	
Date Collected: 10/16/13	Time Collected: 1546	
Samplers: JR/BM/SM	# Sample Containers: (unfiltered Sample)	
Equiphent See below	Requested Ahalyses: X Total TAL Metals (EPA 6020A)	
	X Total TAL Metals (EPA 6010C)	
cobalt, co	n, antimony, arserilo, barium, beryllium, cadmium, chromium, pper, lead, manganese, nickel, selenium, silver, thailium, n, and zinc	
TAL Metals using EPA Method 6010C. calcium, ii	ron, magnesium, potassium, and sodium	
Additional Notes or Photos © ER-2B-C3-MA-1. (Svab)		
(2) ER-2B-C3-MA-2 (SCOOP)		
Q ER-2B-C3-MA-2 (SCOOP) 3 I=R-2B-C3-MA-3, (+ub)		

Field Supervisor Initials



Sample ld: <u>ER-2-R7-mA</u>	Sampling Vessel: <u>Mazam G</u>		
Date Collected: 10/17/13	Time Collected: 1548		
Samplers: $\frac{\mathcal{T}R/BM/SM}{\mathcal{T}}$	# Sample Containers: (unfiltered Sample)		
Equipment See below	Requested Analyses: X Total TAL Metals (EPA 6020A)		
	X Total TAL Metals (EPA 6010C)		
	antimony, arsenic, barium, beryllium, cadmium, chromium, oper, lead, manganese, nickel, selenium, silver, thallium, and zinc		
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassium, and sodium		
List all Locations Sampled by this Sampling Vessel on this Date: $QB-CI$, $QB-CZ$, $QB-RI$, $Q-RI$			
Additional Notes or Photos () ER-2-R7-MA-1 (grab)			
(2) ER-2-R7-MA-2 (SCOOP)			
3 ER-2-RT-MA-3 (FUECH)			
9 ER-2-R7-MA-4 (stub)			
,			

Field Supervisor Initials

Sample Lead Initials

Date: 10/17/

Date:

, ,	
Sample Id: $ER-2-C2-MA-$	/ Sampling Vessel: <u>Nazamg</u>
Date Collected: 10/18/13	Time Collected: 1536
Samplers: $\overline{VR}/Bm/5m$	# Sample Containers: (unfiltered Sample)
Equipment Evaluated:	Requested Analyses: X Total TAL Metals (EPA 6020A)
	Total TAL Metals (EPA 6010C)
	aluminum, antimony, arserlic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickėl, selenium, silver, thallium,
	vanadium, and zinc
44	calcium, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Ves $Q - RS$, $Q - CH$, $Q - CS$	
Additional Notes or Photos	
TO CONTRACTOR	
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TRANSPORTER TO THE PROPERTY OF	

Field Supervisor Initials

Sample Lead Initials

Date: 10/19/13

Date: 10/18/13



	and the same of th
2-C1 DAN 11/26/13	
Sample Id: 82-1-R3 - MA-1 40	Sampling Vessel: MCZom O
Date Collected: 15/19/13	Time Collected: (447
samplers: The tche: Stegnir, Syculi	# Sample Containers: (unfiltered Sample)
Equipment Evaluated: See Selow	Requested Analyses: Total TAL Metals (EPA 6020A)
as as given ages age	Total TAL Metals (EPA 6010C)
	antimony, arsenic, baffum, beryllium, cadmium, chromlum, ober, lead, manganese, hickel, selenium, silver, thailium, and zinc
TAL Metals using EPA Method 6010C calcium, in	on, magnesium, potassium, and sodium
1-R3 (rejected) 1-RG(reject	
. 23 Cregaries 1 rescretar	Ris 2-C1 (Orcepted)
Additional Notes or Photos	the state of the s
ER-+ P3-MA-1- greb	
2-01	
ER-+-23-MA-Z - Scock	2
ER-1-83-MA-3-406	
[R-12-0] - mA-4-m	ter
ER-1-23-MA-3-40b	×

Field Supervisor Initials

NA TON

Date: 10/20/13

Sample Lead Initials

Date: /c//C/



sample ld: ER-1-RS-MA	Sampling Vasael:	MAZAMA	
Date Collected: 10/21/13	Time Collected:	1615-land 2	; 1637-3
SHOWS PANTHER BIELMANN	# Sample Complners: (unfiltered Sample)	6	PRINCIPLE AND ADMINISTRATION OF THE PRINCIPLE AND ADMINISTRATION O
Evaluated: See Becau	Requested Analyses:	X Total TAL Metals	(EPA 6020A)
THE MAKE	9.58	X Total TAL Metals	(EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum cobalt, co	n, antimony, arsenic, bariu pper, lead, manganese, n n, and zinc		. 1 (1)
TAL Metals using EPA Method 6010C: calcium, i	ron, magnesium, potassiu	m, and sodium	EDDIVIZIONAL
List all Locations Sampled by this Sampling Vessel on th	is Date:	orani makibi da di mangan makiban da cadal	nikani ibilah ilikan semenan sementah
1-C4, 1-R4, 1-C	3, 1-R7	1-RS	Carry Carachymenters and Article Carry
Additional Notes or Photos	·		,
Only one acha	l sample	at 1-1	28
ER-1-RS-MA- ER-1-RS-MA-	-/-	brah	lle15
ER-1-R8-MA-	2 -	SLOOP	1615
ER-1-R8-MA-	3 -	TUB	1637
To the second se			e e
Distribucion			
Topological and the state of th			
WAS ARREST OF THE PROPERTY OF			

Field Supervisor Initials

Date: 10/22/13

Date: 10/21/13



Sample ld: £R-1-R5-MA	Sampling Vessel:	MAZAN	MA
Date Collected: 10/22/13	Time Collected:	1600	CONTRACTOR DELICIONARIO ANTONIO
Samples: PRATHER BIZEMANN	# Sample Containes: (unfiltered Sample)	6	The same state of the same same same same same same same sam
Equipment See below	Requested Analyses:	X Total TAL Metals	(EPA 6020A)
cobalt, cop vanadium,	antimony, arsenic, batilum per, lead, manganese, nic and zinc ph, magnesium, potassium	kel, selenium, silver, th	hlomium,
List all Locations Sampled by this Sampling Vessel on this	100 k	diamana	and the same of th
1-R9, 1B-CZ, 1B		C1 /-R	5
Additional Notes or Photos	4.62		
ER-1-R5-1		Grab Scoop	
ER-1-R5-1	44-2	3200P	
ER-1-R5- M	1A-3	TUB	
Validation and valida			

Field Supervisor Initials



	*
sample ld: ER-2-B3-MA s	Sampling Vessel: MAZAMA
Date Collected: 10 23 13	Time Collected: 1430
	Sample Containers: unfiltered Sample)
Equiphent SEE BELOW F	equested Analyses: X Total TAL Metals (EPA 6020A)
	Total TAL Metals (EPA 6010C) itimoriy, arsenic, barium, beryllium, cadmlum, chłomium, ir, lead, manganese, nickel, selenium, silver, thaillium,
vanadium, ah	
The Agentum A particular of the contract of th	maghesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this b	idtë:
1B-C4, 1B-R3,	1B-R4, 1-134, 2-133
Additional Notes or Photos	
ER-2-B3-MA	-1 Grab
ER-2-B3-MA	-2 Scoop
ER-2-B3-MA	_
ER-2-133-MA	
CIC-C ISS I'M	
only sediment san	uple was at 1B-R3

Field Supervisor Initials

DH

Date: 10/24/13

Sample Lead Initials

m

Date: 10/23/13

(F)	
Sample id: EP-4-RI-MA	Sampling Vessel: MAZAMA
Date Gdliected: 10/24/13	Time Collected: 1222
Sample: PANTER/BISLAMAN Equipment	# Sample Contalt lers: (unfiltered Sample)
Evaluated: SZE BELLEN	Requested Analyses: X Total TAL Metals (EPA 6020A)
	Total TAL Metals (EPA 6510C)
TAL Metals using EPA Method 60½0Å:	antimony, arsenic, bariulti, beryllillim, cadmium, chromium, per, lead, manganëse, nickel, sëlënium, silver, thallium, and zinc
Loss was a first the second of	on, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this	Date:
2B-C4, 4R	2-/
Additional Notes or Photos	
ER-4-RI-	
ER-4-R&1	1111-2 3007
ER-4-R1-1	MA-3 two 20 10/28/13

Field Supervisor Initials

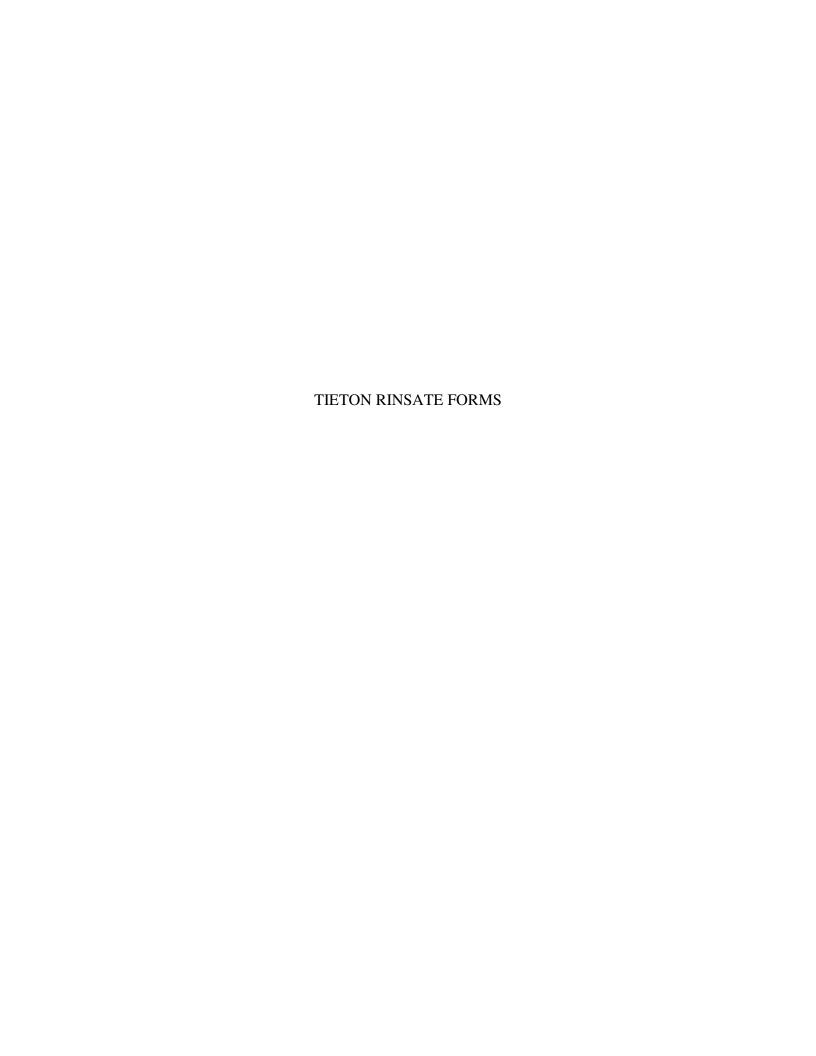
1914

Date: 10/24/13

Sample Lead Initials

pw

Date: 10/24/1



Sample Id:	ER-6-2-TT	;	Sampling Vessel:	ie-ten
Date Collecte	ed: <u>9/5/13</u>		Fime Collected:	1620
Samplers:	vether, Kelly, Sugar	56 1	# Sample Containers: /unfiltered Sample)	2
Evaluated:	Soil Scoops		Requested Analyses:	X Total TAL Metals (EPA 6020A)
				X Total TAL Metals (EPA 6010C)
TAL	Metals using EPA Method 6020A:		er, lead, manganese, ni	n, beryllium, cadmium, chromium, ckel, selenium, silver, thallium,
TAL	Metals using EPA Method 6010C:	calcium, iron	, magnesium, potassiur	m, and sodium
List all Local	tions Sampled by this Sampling Ve	ssel on this C	Date:	
6-1:6-2				
Additional N	otes or Photos			
Con	Suchal on 2	Blos	tre Soil	Scorps
9	or complete	to a	à Sample	Processin
a.	4 G-Z.			5
		T.		

Field Supervisor Initials

DA

Date: 4/1//3

Sample Lead Initials

99

Date: 9/5//3

Sample Id: <u>87-6-4-77</u>	Sampling Vessel:	
Date Collected: 9/6/13	Time Collected:	
Samplers: Letter, Kelly, Sycish	# Sample Containers:(unfiltered Sample)	
Equipment Evaluated: Von Veun Somov	Requested Analyses: X Total TAL Metals (EPA 6020A)	
	X Total TAL Metals (EPA 6010C)	
	, antimony, arsenic, barium, beryllium, cadmium, chromium, pper, lead, manganese, nickel, selenium, silver, thallium, , and zinc	
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassium, and sodium	
List all Locations Sampled by this Sampling Vessel on thi	s Date:	
6-316-4		
Additional Notes or Photos		
Sempler was rossel	on site water, washed	
we ligoinox, worked w	ish sitewater, weshed	
with Nitric acidly riv	reed with site weter	
rinsed with DI and then blank collevel		
From inside by pooring additional DI into		
the sample.		

Field Supervisor Initials

Sample Lead Initials 28

Date: 9/6

Date: 3/6/13



Sample Id: ER-LAL-6-TI	Sampling Vessel:	TIETON
Date Collected: 9713	Time Collected:	1530
Samplers: Subhiski KSLLY	# Sample Containers: (unfiltered Sample)	2
Equipment Evaluated: LEXAN TUB	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
	oper, lead, manganese, nic	n, beryllium, cadmium, chromium, ckel, selenium, silver, thallium,
TAL Metals using EPA Method 6010C: calcium, in	on, magnesium, potassiun	n, and sodium
List all Locations Sampled by this Sampling Vessel on thi	s Date:	
LAL-4 LAL-5	LAL-6	
Additional Notes or Photos		
2		

Field Supervisor Initials

DH_

Date: 9/7//3



ER-LAL-3-TI		,
Sample Id: EPA-3 DNA 9/9/13	Sampling Vessel:	TIETON
Date Collected: 9/8/13	Time Collected:	1553
Samplers: Sul-ALSKI	# Sample Containers: (unfiltered Sample)	2
Equipment SIEVE	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
•	per, lead, manganese, nic	n, beryllium, cadmium, chromium, ckel, selenium, silver, thallium,
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassiun	n, and sodium
List all Locations Sampled by this Sampling Vessel on thi	s Date:	
SE-LAL 1, 2, 3		
Additional Notes or Photos		
PHOTO 10	3-0388	
V V 1 10 MM		
i '		
19 II		

Field Supervisor Initials

Sample Lead Initials

-

Date: 9/8/13



Sample Id: 7-C4	Sampling Vessel:	
Date Collected: 9//2//3	Time Collected: 1404 - (477	
Samplers: Parther, SigalsW	# Sample Containers: (unfiltered Sample)	
Evaluated: Toby graby Scoops muses	Requested Analyses: X Total TAL Metals (EPA 6020A)	
, -	X Total TAL Metals (EPA 6010C) antimony, arsenic, barium, beryllium, cadmium, chromium, per, lead, manganese, nickel, selenium, silver, thallium, and zinc	
TAL Metals using EPA Method 6010C: calcium, iro	n, magnesium, potassium, and sodium	
List all Locations Sampled by this Sampling Vessel on this	Date:	
7B-C2, 7-C4		
Additional Notes or Photos		
1-grab =7 ER-7	1-C4-TI-1 1404	
2-5c008=7 ER-7.	8011 S-III-112-	
3- tub =7 ER- 7-CU-TI-3 1409		
4-mixer=78R-7-CU-TI-4 1412		

Field Supervisor Initials

Date: 9/13/13

Date: 9/13/13

Date: 9/13/13

Sample Id:	Sampling Vessel: 1 2 dec
Date Collected: 9/13/13	Time Collected:
Samplers: Partly Stegrer Sigely	# Sample Containers: (unfiltered Sample)
Equipment Evaluated: gab toop Tub more	Requested Analyses: X Total TAL Metals (EPA 6020A)
7 . 1	X Total TAL Metals (EPA 6010C)
, and the second	, antimony, arsenic, barium, beryllium, cadmium, chromium, pper, lead, manganese, nickel, selenium, silver, thallium, , and zinc
TAL Metals using EPA Method 6010C: calcium, ir	ron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on thi	s Date:
7-61,7-85,7-	BZ, 7-B4, 7-BG
Additional Notes or Photos	
grap = 1 = 784-	7-131-1
Scop 2 2 => ER-	5-B1-12-S
(0.0	-7-B1-TI-3
Mixer = 4 = 7 22 -	7-BI-TI-34
	Palled 3
8	

Field Supervisor Initials

Sample Lead Initials

Date: 9/13/13

Date: 9//3//3



23. 9/13/13		
Sample Id: CR-Ref-6-TI-1409	Sampling Vessel:	Tieton
Date Collected: 9/14/13	Time Collected:	1358
Samplers: SydsW. Stegnor 802th	# Sample Containers: (unfiltered Sample)	10
Evaluated: Grob Score, Lub huder	Requested Analyses:	X Total TAL Metals (EPA 6020A)
Sieve		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc		
TAL Metals using EPA Method 6010C: calcium, in	on, magnesium, potassiun	n, and sodium
List all Locations Sampled by this Sampling Vessel on this	s Date:	
6B-CZ < Ref-6		
Additional Notes or Photos Grab - ER-Res-6-TI-1		
grab 1 - EN-16.	6-12-1	
Scoop Z ~ ER-Ref.	5-IT-5-	2
tub 3 - ER-Ref-6 - TI-3		
mixer 4 - ER - Ref-6-TI-4		
Sieve 5 - ER - Res-6-7 I-5		
,		

Field Supervisor Initials

104

Date: 9/18/13

Sample Lead Initials

1/2

	725 010111100 0140.4	a. 20
Sample Id: ER-78-C1-TI-1+6	Sampling Vessel:	Tieten
Date Collected: 9/6/13	Time Collected: _	1600
Samplers: Partle Sugash Posey	# Sample Containers: (unfiltered Sample)	8
Evaluated: Crcb Scuce, tub, Mixin	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc		
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassiun	n, and sodium
List all Locations Sampled by this Sampling Vessel on thi		001 -0 01
6B-C3, 6B-CU, 7B-CU, 7B-C1		
Additional Notes or Photos		
Grab - ER-1B-C1-	1-17	
Scoop- ER-7B-C1-TI-Z		
tub-ER-B-C1-TI-3		
miler - ER - 7B-C1 -TI-4		

Field Supervisor Initials

DH

Date: 9/18/13

Sample Lead Initials

_ '

Date: 9/(6//



	Daler	+ 1
Sample Id: 47-8-(3-11	Sampling Vessel:	lieten
Date Collected: <u>9//8//3</u>	Time Collected:	1648
Samplers: Sydbly Bielman	# Sample Containers: (unfiltered Sample)	8
Equipment Sea Below	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A:	aluminum, antimony, arsenic, barium cobalt, copper, lead, manganese, nic vanadium, and zinc	
TAL Metals using EPA Method 6010C:	calcium, iron, magnesium, potassium	n, and sodium
List all Locations Sampled by this Sampling Ve	ssel on this Date:	
8-C3, 8b-C1,	810-C3,81	3-64
Additional Notes or Photos		
ER-8-C3-TI	-1-Greb	
ER-8-C3-TI	-2 - Scuop	
ER-8-C3-TI	-3-tub	
EB-8-63-17	- 4-mixe	
2		

Field Supervisor Initials

Sample Lead Initials

Date:

	40.4	
Sample Id: $(R-8-83-71)$	Sampling Vessel:	Tieten
Date Collected: 9/19/13	Time Collected:	1608
Samplers: Sigelch Belman, Pa	# Sample Containers: (unfiltered Sample)	
Equipment See Below	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc		
TAL Metals using EPA Method 6010C: calcium, ire	on, magnesium, potassiun	n, and sodium
List all Locations Sampled by this Sampling Vessel on this		
SE-8-C4, 8-B4	8-83	
Additional Notes or Photos		
ER-8-B3-TX-1		
ER-8-B3-TI-Z-Scoop		
ER-8-B3-TI-3-tub		
ER-8-B3-TI-C	(- Mixe	

Field Supervisor Initials

DH_

Date: 9/20/13

Sample Lead Initials

113

Date: 9/19/1

	_	
Sample Id: <u>EN-8-BS-T</u>	Sampling Vessel:	Tieten
Date Collected: 9/20/13	Time Collected:	1608
Samplers: McDairel, Sugashing &	# Sample Containers: (unfiltered Sample)	(0
Evaluated: See Reland	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
C	aluminum, antimony, arsenic, bariun cobalt, copper, lead, manganese, ni ranadium, and zinc	
TAL Metals using EPA Method 6010C: c	alcium, iron, magnesium, potassiur	m, and sodium
List all Locations Sampled by this Sampling Vess	sel on this Date:	
8-05, 8-BG	, ,	
Additional Notes or Photos		
EB-8-BZ-1I-1	- Greb	
S-IT-28-8-93	- Scoop	
ER-8-B5-TI-	3-Tub	
ETZ-8-85-TI.	-4-mixer	
IT-28-8-73	-5-51eve	
*	*	18.

Field Supervisor Initials

29/4

Date: 9/24/13

Sample Lead Initials

A.

Date: 9/20/13

Sample ld: Sampling Vessel: **Date Collected: Time Collected:** Samplers: # Sample Containers: (unfiltered Sample) Equipment **Requested Analyses:** X Total TAL Metals (EPA 6020A) Evaluated: X Total TAL Metals (EPA 6010C) TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc

TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium

8-01

List all Locations Sampled by this Sampling Vessel on this Date:

Additional Notes or Photos

Field Supervisor Initials

Sample Id: ER - 6-86-Ti-1	Sampling Vessel:	
Date Collected: 092413	Time Collected: 1700	
Samplers: GDC	# Sample Containers: 2 (unfiltered Sample)	
Equipment GRAS	Requested Analyses: X Total TAL Metals (EPA 6020A)	
	X Total TAL Metals (EPA 6010C)	
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc		
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassium, and sodium	
List all Locations Sampled by this Sampling Vessel on thi	s Date:	
6-86 6-64		
6B-C1		
Additional Notes or Photos		
,		

Field Supervisor Initials

10H

Date: 9/25/13

Sample Lead Initials

Date



		×
Sample Id: ER-6-B6-71-2	Sampling Vessel:	Tieton
Date Collected: 097413	Time Collected:	(200
Samplers: GOP	# Sample Containers: (unfiltered Sample)	
Equipment Evaluated: SCOOP	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc		
TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium		
List all Locations Sampled by this Sampling Vessel o	on this Date:	
Additional Notes or Photos		
•		
3		

Field Supervisor Initials

DA

Date: 9/95/13

Sample Lead Initials

Da

Date: 24 SEPT 201

Sampling Vessel: Date Collected: 0925 1 Time Collected: # Sample Containers: (unfiltered Sample) Equipment X Total TAL Metals (EPA 6020A) **Requested Analyses:** Evaluated: X Total TAL Metals (EPA 6010C) aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, TAL Metals using EPA Method 6020A: cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium List all Locations Sampled by this Sampling Vessel on this Date: SE-6-C1 SE-6-BZ SE-6-C2 Additional Notes or Photos ER-6-CZ-TI-2 SCOOP

ER-6-C2-TI-3 TUB

ER-6-C2-TI-4 MIXER

Field Supervisor Initials DA Date: 9/71/13

	*
Sample Id: <u>ER-5B-C3-77</u>	Sampling Vessel: Teton
Date Collected: 9-26-13	Time Collected: 1740
Samplers: Rapp/Vetter/Kelly	# Sample Containers: (unfiltered Sample)
Equipment SCC bClDW	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
	, antimony, arsenic, barium, beryllium, cadmium, chromium, oper, lead, manganese, nickel, selenium, silver, thallium, and zinc
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassium, and sodium
6-B4, 5B-C2, 5B-	C3, 3D C7
Additional Notes or Photos (1) Grab ER-5B (2) Scoop ER-5B (3) Tub ER-5B (4) MIXCR ER-5B	- C3-T2 - C3-T3

Field Supervisor Initials

Sample Lead Initials

Date: 9/28/13

Date: 9-26-



5-B4 9mf 9/28/13	
Sample Id: 56-4-	Sampling Vessel: LU TIETOU
Date Collected: 27 Sept. 2013	Time Collected:
Samplers:	# Sample Containers: 8 (unfiltered Sample)
Evaluated: PREPOR, SCOOP, TUB, MIXEL	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
The state of the s	, antimony, arsenic, barium, beryllium, cadmium, chromium, pper, lead, manganese, nickel, selenium, silver, thallium, , and zinc
TAL Metals using EPA Method 6010C: calcium, in	ron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on thi	
5B-c1; 5-B5; 5-B6	5-134 gut 9/28/13
Additional Notes or Photos	
ER-B-BY-1 (GRAF, ER-5-BY-2 (SCOOF, ER-5-BY-3 (TVB) ER-5-BY-Y (MIXER,)

Field	Cum	mile	or In	itial
rieiu	Supi	21 A 12	JI 111	Illiai

Sampling Vessel: Date Collected: 0720 Time Collected: # Sample Containers: Samplers: (unfiltered Sample) Equipment X Total TAL Metals (EPA 6020A) Requested Analyses: Evaluated: X Total TAL Metals (EPA 6010C) aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, TAL Metals using EPA Method 6020A: cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc calcium, iron, magnesium, potassium, and sodium TAL Metals using EPA Method 6010C: ist all Locations Sampled by this Sampling Vessel on this Date: Additional Notes or Photos

Field Supervisor Initials

Sample Id: 5-B3 Sampling Vessel: Date Collected: 30 SEPT 2013 Time Collected: # Sample Containers: Samplers: (unfiltered Sample) Requested Analyses: X Total TAL Metals (EPA 6020A) Evaluated: X Total TAL Metals (EPA 6010C) TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium List all Locations Sampled by this Sampling Vessel on this Date: 5-C1; 5-B3 Additional Notes or Photos ER-5-B3-T1-1 (GHB) ER-5-B3-T1-2 (SCOOR) ER-5-133-+(-3 (NB) FR-5-B3-T1-4 (MIXER)

Field Supervisor Initials

Date: 10/01/13

Date: 9/30/13

	п	
Sample Id: EP - Ref - 2	Sampling Vessel:	RV TIETON
Date Collected: / OCT 2013	Time Collected:	(500
Samplers: OB	# Sample Containers: (unfiltered Sample)	14
Equipment Evaluated: Set Notes	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, cobalt, cop vanadium,	per, lead, manganese, r	ım, beryllium, cadmium, chromium, nickel, selenium, silver, thallium,
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassio	um, and sodium
List all Locations Sampled by this Sampling Vessel on thi	s Date:	
Ref-2, Trob-3		
ĺ ,		
Additional Notes or Photos		
ER-Ref-2-TI-1 POWER		
ER-Ref-Z-T1-3 -MIXED	Nº 1007243	
ER-Ref-Z-TI-3 -MIXER	NB	
DR-Ref-Z-TI-4 MIXER		
ER-REF-2-TI-5 SCREEN		
ER-RES-2-TI-6 ShoVEL		
ER- Ref-2-TI-7 PONAR		
80		
,		

Field Supervisor Initials

AH

Date: 10/2/13

Sample Lead Initials

200

Date: 1047 13

Sampling Vessel: Date Collected: Time Collected: Samplers: # Sample Containers: (unfiltered Sample) Equipment Requested Analyses: X Total TAL Metals (EPA 6020A) **Evaluated:** X Total TAL Metals (EPA 6010C) aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, TAL Metals using EPA Method 6020A: cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium List all Locations Sampled by this Sampling Vessel on this Date: 4B-C3 Ref-1 ER-4B-(1-T)-1 GRAD Additional Notes or Photos ER-4B-4-Ti-Z SCOOP ER-4B-4-Ti-3 TVB ER-4B-4-Ti-4 Mixer

Field Supervisor Initials

291

Date: 10/6/13

Sample Lead Initials

69

Date: 100413

Sample Id: See Below	Sampling Vessel: TeTOM
Date Collected: 100513	Time Collected: 1542
Samplers: GOP, OB, DC	# Sample Containers: (unfiltered Sample)
Evaluated: See Beww	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
cobalt, co	, antimony, atseniò, barium, beryllium, cadmium, chroittium, pper, lead, manganese, nickel, selenium, silver, thallium, , and zinc
and the last of th	ron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on th	is Date:
4-B-5 4-B-2	
4-13-4	Author
Additiöhal Notes or Photos	
ER-4-B4-Ti-1- Gn	
ER-4-B4-Ti-2-50	
En-4-B4-Ti-3 T	
En-4-BY-T:-4 m	N:XEX
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Field Supervisor Initials

Sample Lead Initials

Date: 10/06/13

Date: (005 i



grand and the company of the property of the p	CONTROL OF THE PROPERTY OF THE	CONTRACTOR OF COMMUNICATIONS AND ARREST ARREST AND ARREST ARREST AND ARREST ARREST AND ARREST ARREST AND ARREST ARRES
FR-4-BI-TI-1605	7/13	
Sample Id: 22-4-18-1-16-45	Sampling Vessel: Tio Jew	
Date Collected: 10/7/13	Time Collected: 1545	AREATH A A SECTION TO THE ATTENDANCE AND A SECTION AS A SECTION AS
Samplets: Sagasta	# Sample Containers: (unfiltered Sämple)	
Evaluated: Gras Scoop teb Scient Pond		Metals (EPA 6020A)
10.	X Total TAL I	Metals (EPA 6010C)
	, antimony, arseniò, barium, beryllium, cadr pper, lead, manganese, nickël, selenium, si , and zinc	
TAL Metals using EPA Method 6010C: calcium, in	ron, magnesium, potassium, and sodium	
List all Locations Sampled by this Sämpling Vessel on thi	is Date:	
Tab-2 & 4-B1		
Additional Notes or Photos		
ER-4. BI-FEI - Gr	d.s	-
ER-4-BI-FIZ- Sco	© €	
ER-4-BHB3- TUE		
ER 4. BITELY - Scre	en	
ER - U-BHB-5 - Pon	ar	

Field Supervisor Initials



THE RECORD CONTRACT OF THE CON	and recognises to consumption on the second
Sample Id: 87-3-04-TI-1+03	Sampling Vessel: TIC+ON
Date Collected: (0/8//3	Time Collected:
Samplers: Beham Signish caba mill	C# Sample Containers: (unfiltered Sample)
Evaluated: Grab Scap, 40	Requested Arbiyses: X Total TAL Metals (EPA 6020A)
* * * * * * * * * * * * * * * * * * *	X Total TAL Metals (EPA 6010C)
	antimony, arsenic, berlum, beryllium, cadrilium, chromium, per, lead, manganese, nickel, selenium, silver, thallium, and zinc
JAMES III.	on, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this	s Date:
4-B6, 3B-C3,	3-04
Additional Notes or Photos	
ER-3-CU-TI-1 -	Grah
	Scoop
ER-3-C4-TI-3-	Tob
R. Carlotte	

Field Supervisor Initials

DH

Date: 10/10/13

Sample Lead Initials

H

Date: 10/8/13



	\ _ (\)
Sample Id: (2-3-84-11-)	Sampling Vessel: T. 2.)
Date Collected: 15/14/13	Time Collected: 1557
Samplers: Scyclate, Bishman, Thateler	# Sample Containers: (unfiltered Sample)
Evaluated: See below	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
cobal	num, antimony, arsenio, barium, beryllium, cadmium, chromium, t, copper, lead, manganese, nickel, selenium, silver, thallium, dium, and zinc
uduga de ada de	im, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel o	
3-B5 (no semple) 3-22	3-B4 3-RS (no semple)
Additional Notes or Photos	
ER-3-B4-TI-1-	Grab
ER-3-B4-TI-2-5	COC 8
ER-3-B4-TX-3-	Tub
ER-3-BU-TI-4-	meter
Name of the state	

Field Supervisor Initials



Upper Columbia River RI/FS 2013 Phase 2 Sediment Study

Sample Id: ER-3-R7-TI-1+03 Sampling Vessel: Tioten
Date Collected: 16/15/13 Time Collected: 1652 2 1722
Samplers: Scaclon, Relman, Stegner The the Sample Containers: (unfillered Sample)
Equipment Evaluated: Requested Analyses: X Total TAL Metals (EPA 6020A)
X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, albehlic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mangahlese, nickel, selenium, silver, thallium, vanadium, and zinc
TAL Metals using EPA Method 6010C: calcium, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this Date: 3 - R10
3-126 (000 200)
3-R7 (only an ephbli single) 2-R10
Additional Notes or Photos Semple time
Additional Notes or Photos
Scmpie time ER-3-R7-TI-1-Grab-1652 ER-3-R7-TI-2-Scoop 2 1777
Additional Notes or Photos Semple time ER-3-R7-TI-1-Grab-1652
Scmpie time ER-3-R7-TI-1-Grab-1652 ER-3-R7-TI-2-Scoop 2 1777
Scmpie time ER-3-R7-TI-1-Grab-1652 ER-3-R7-TI-2-Scoop 2 1777
Scmpie time ER-3-R7-TI-1-Grab-1652 ER-3-R7-TI-2-Scoop 2 1777

Field Supervisor Initials

DH 161 Date: 10/15/13

Sample Lead Initials

Date: 10/15/13



	v	
Sample Id: ER - 3 - B 1 - T1	-140 Y	
Sample Id:	Sampling Vessel:	
1, 11/ /12	in it is	
Date Collected: 16/16/13	Time Collected: 1540	
6	C)	
Samplers: Sugalsh, Thateler, S.	# Sample Containers: (unfiltered Sample)	
Equipment See Prelaw	Requested Analyses: X Total TAL Metals (EPA 6020Å)	
	X Total TAL Metals (EPA 6010C)	
TAL Metale ਪੈਵੀਂਸੀਰੂ EPA Method 6020A	aluminum, antimony, arserlic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mangahese, nickel, selenium, silver, thallium, vanadium, and zinc	
TAL Metals using EPA Method 60100	calcium, iron, magnesium, pbtassium, and sodium	
List all Locations Sampled by this Sampling Ves	ssel on this Date:	
3-83, 3-83	2,3-81	
Additional Notes or Photos		
ER-3-BI-TI	-1 - Greb	
ER-3-B1-TI-Z-SCOOP		
5/6, 2-12,	+ 5 2600b	
ER-3-BI-TI	-3-406	
(1) 301 1	11 . 100 1	
ER-3-B1-TI-	- 4 - mixes	
	ac .	
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Field Supervisor Initials

Date: 10/18/13

Date: (0/16/1



Sample Id: ER-2-By-TI- Sampling Vessel: Tieten
Date Collected: 10/17/13 Time Collected: 10/9
Samplers: Sugrah, Tholine, Styr #Sample Containers: (unfiltered Sample)
Equiphient Sel below Requested Analyses: X Total TAL Metals (EPA 6020A)
Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsetlic, barlulti, baryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, setehium, silver, thallium, vanadium, and zinc
TAL Metals using EPA Method 6010C; calcium, iron, magnesium, botassium, and sodium
List all Locations Sampled by this Sampling Vessel on this Date:
List all Locations Sampled by this Sampling Vessel on this Date: 2-R2 (no Scape)
2-BH(302 3-R1(3202+15gal)
2-B4 (Only 202)
Additional Notes or Photos
ER-Z-BU-TI-1-Grab
88-5-BU-LI-5-2006
8R-2-B4-TX-3-40b
ER-Z-B4 II-4-mixer
ER-2-BU-TI-5-Screen

Field Supervisor Initials

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Date: 10/17/13

Sample Lead Initials

Julian marine

Date: (4/7//7



Sample Id: ER-1-B5-TI-1+65 Sampling Vessel: Tieter
Date Collected: 10/18/13 Time Collected: 1805
Samplers: Signification # Sample Containers: (Unfiltered Sample)
Equipment See be low Requested Analyses: X Total TAL Metals (EPA 6020A)
Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, barium, belyllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc
TAL Metals using EPA Method 60100: calcium, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this Date:
2-123, 1-RIC(aboutoned), 2-Ri(Rejected)
Additional Notes or Photos
ER-1-B5-TI-1 - Secret grab
ER-1-BS-TI-2-Scoop
ER-1-BS-TT-3-TUb
ER-1-BS-TI-4-mixer
ER-1-B5-TI-5-Screen

Field Supervisor Initials

Date: 10/94/13

Sample Lead Initials



Date: 10/15/13

	4	
Sample Id: 82-1-22-11-1+03	Sampling Vessel:	
Date Collected: 10/21//3	Time Collected: (5)7	
Samplers: Sugalsa, tholoke Stegar	# Sample Containes: (unfiltered Sample)	
Evaluated: See below	Requested Analyses: X Total TAL Metals (EPA 6020A)	
	X Total TAL Metals (EPA 6010C)	
	antimony, arserlic, belium, belyllium, cadmium, chromium, per, lead, manganese, hickel, selenium, silver, thallium, and zinc	
TAL Metais using EPA Method 6010C: calcium, ir	on, magnesium, poteksium, and sodium	
List all Locations Sampled by this Barripling Vessel on thi		
1-B3, 1-B1, 1-R1,	1-133, 1-136, 1-122	
Additional Notes or Photos		
ER-1-RZ-TI-1 - Grab		
- 2-I-23-1-23	50008	
ER-1-82-TI-3	dut.	
The second secon		
THE STATE OF THE S		

Field Supervisor Initials 1914



Sample Id: 82-18-C1-TI-1 +25	Sampling Vessel: Tie-le-	
Date Collected: 10/72/13	Time Collected: 1558	
samples: Sogdan, Skyrur, The tell	# Sample Containers: // / (unfiltered Sample)	
Equipment See balow	Requested Affalyses: X Total TAL Metals (EPA 6020A)	
there is a second of the secon	X Total TAL Metals (EPA 6010C)	
TAL Metals using EPA Method 6020A: aluminu cobalt, i	um, antimony, arsehlc, barlum, befyllium, cadmium, chromium, copper, lead, manganesė, nickel, selenium, silver, thailium, um, and zinc	
TAL Metals using EPA Method 6010C: calcium	n, iron, magnesium, potassium, and sodium	
List all Locations Sampled by this Sampling Vessel on	this Date:	
1B-C1, 1B-RZ, 1B-R	-1,1-BZ	
Additional Notes or Photos		
ER-1B-CI-TI-1-P	onar	
ER-1B-C1-TI-2 = Scoop		
ER-18-01-TI-3=TUb		
ER-1B-C1-TI-4= Mixer		
EB-1B-C1-TI-5-5	- Screen	

Field Supervisor Initials

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Date: 10/24/13

Sample Lead Initials

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Date: / \22/13

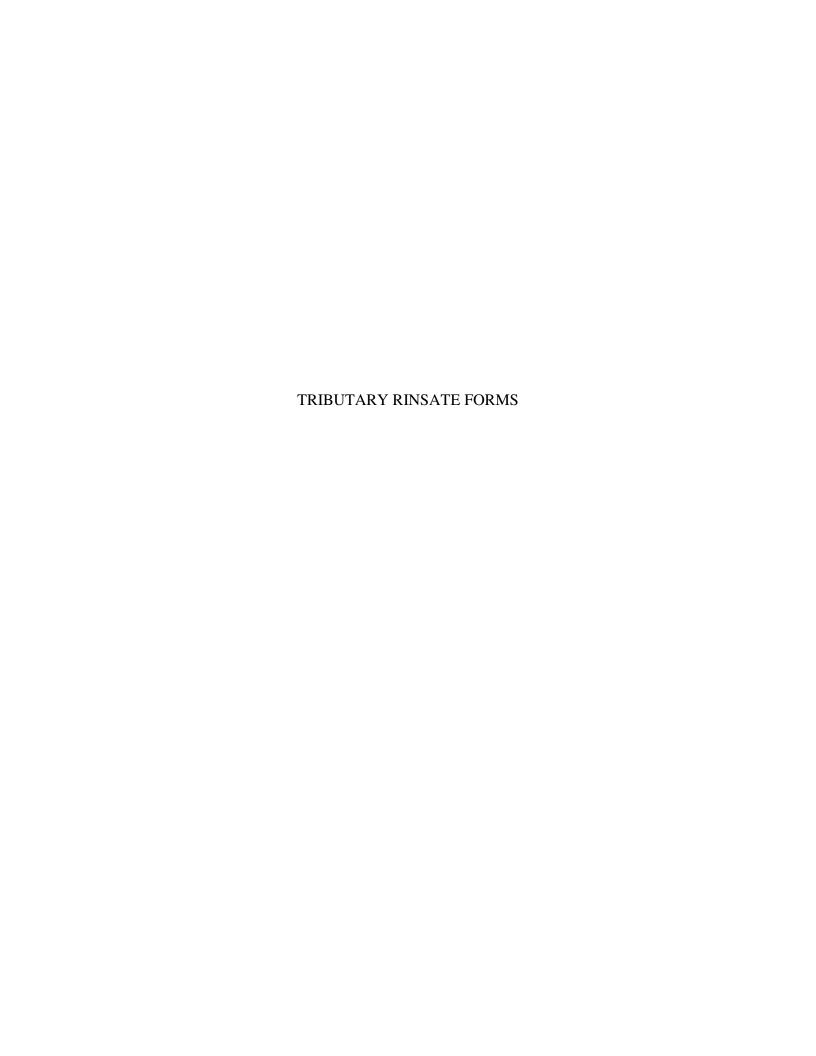


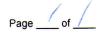
	y inc	
Sample ld: ER - Z - BZ - TI - 1 + 6 3	Sampling Vessel:	Tieton
Date Collected: 1923/13	Time Collected:	1428
samplets: Sugala Thalcher Stegner	# Salfiple dultuller (unfiltered Sample)	: 6
Edulphient See below	Requested Analyses	X Total TAL Metals (EPA 6020A)
cobalt, co		X Total TAL Metals (EPA 6010C) urn, beryllium, cadrilum, chromium, nickel, selenium, sliver, thallium,
TAL Metals using EPA Method 6010C: calcium, i	ron, maghesium, potassi	um, and sodium
List all Locations Sampled by this Sampling Vessel on th	is Date:	Market 1 the second of the sec
2-132,2-12-	BI	
Additional Notes or Photos	The second secon	Anna Anna Anna Anna Anna Anna Anna Anna
ER-2-B2-TI-1-	Greb	
ER-2-BZ-TI-2-	Scop	
ER-5-BS-TI-3-	dur	

Field Supervisor Initials Date: 10/2

V		
Sample Id: ER-3-R9-TI-1+65	Sampling Vessel:	Tieden
Date Collected: 10/24/13	Time Collected:	1427
samplete: Succish, thateler, Stegner	# Sample Containers: (unfiltered Sample)	10
Evaluated: See below	Requested Analyses:	X Total TAL Metals (EPA 6020A)
X. 100		X Total TAL Metals (EPA 6010C)
	per, lead, manganese, nic	i, beryllium, cadmium, chrómium, ikel, selenium, silver, thallium,
The state of the s	on, magnesium, potassium	n, and sodium
List all Locations Sampled by this Sampling Vessel on this	Date:	
3-R9, 2B-RZ, 3-	89	1
Additional Notes or Protos	STREET,	
ER-3-R9-TI-1 = Gr	cb	
ER-3-R9-TI-Z= Sco	00	
ER-3-R9-TI-3-TO	de	
82-3-Ra-TI-4= M	lifer	
ER-3-R9-TI-5-Sch	een	
a		

Field Supervisor Initials





Sample Id: TEB-1	Sampling Vessel:	NA
Date Collected: 26 SEPT 2013	Time Collected:	1654
Samplers: MY GDP	# Sample Containers: (unfiltered Sample)	
Evaluated: SEE NOTES	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A:	aluminum, antimony, arsenic, barium cobalt, copper, lead, manganese, nic vanadium, and zinc	, beryllium, cadmium, chromium, kel, selenium, silver, thallium,
TAL Metals using EPA Method 6010C:	calcium, iron, magnesium, potassium	ı, and sodium
List all Locations Sampled by this Sampling V	essel on this Date:	
TRIB-1 MUD 0008		
Additional Notes or Photos		
SAMPLE 10		
B2-TR18-1-1		
ERTRIB-1-2		
ER-TRIB-1- 3		
ER-TRIB-1-4		
ER-TR18-1-5		
	r	

Field Supervisor Initial	s	Date:	,
Sample Lead Initials	See	Date: 9/26	43

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FR-4-BI-TI-1605	7/13	
Sample Id: 22-4-18-1-16-45	Sampling Vessel: Tio Jew	
Date Collected: 10/7/13	Time Collected: 1545	AREATH A A SECTION TO THE ATTENDANCE AND A SECTION AS A SECTION AS
Samplets: Sagasta	# Sample Containers: (unfiltered Sämple)	
Evaluated: Gras Scoop teb Scient Pond		Metals (EPA 6020A)
10.	X Total TAL I	Metals (EPA 6010C)
	, antimony, arseniò, barium, beryllium, cadr pper, lead, manganese, nickël, selenium, si , and zinc	
TAL Metals using EPA Method 6010C: calcium, in	ron, magnesium, potassium, and sodium	
List all Locations Sampled by this Sämpling Vessel on thi	is Date:	
Tab-2 & 4-B1		
Additional Notes or Photos		
ER-4. BI-FEI - Gr	d.s	-
ER-4-BI-FIZ- Sco	©₽	
ER-4-BHB3- TUE		
ER 4. BITELY - Scre	en	
ER - U-BHB-5 - Pon	ar	

Field Supervisor Initials



	п	
Sample Id: EP - Ref - 2	Sampling Vessel:	RV TIETON
Date Collected: / OCT 2013	Time Collected:	(500
Samplers: OB	# Sample Containers: (unfiltered Sample)	14
Equipment Evaluated: Set Notes	Requested Analyses:	X Total TAL Metals (EPA 6020A)
		X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, cobalt, cop vanadium,	per, lead, manganese, r	ım, beryllium, cadmium, chromium, nickel, selenium, silver, thallium,
TAL Metals using EPA Method 6010C: calcium, ir	on, magnesium, potassio	um, and sodium
List all Locations Sampled by this Sampling Vessel on thi	s Date:	
Ref-2, Trob-3		
ĺ ,		
Additional Notes or Photos		
ER-Ref-2-TI-1 POWER		
ER-Ref-Z-T1-3 -MIXED	Nº 1007243	
ER-Ref-Z-TI-3 -MIXER	NB	
DR-Ref-Z-TI-4 MIXER		
ER-REF-2-TI-5 SCREEN		
ER-RES-2-TI-6 ShoVEL		
ER- Ref-2-TI-7 PONAR		
80		
,		

Field Supervisor Initials

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Date: 10/2/13

Sample Lead Initials

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Date: 1047 13

THE CONTRACT AND ADMINISTRATION OF THE CONTRACT AND
Sample Id: ER-Trib-U-TI-1 to 3 Sampling Vessel: Tilten
Sample Id: EZ-Trib-U-II Sampling Vessel: 1 etem
Date Collected: 10/9/13 Time Collected: 16/14
Samplers: Sugaling Bulman, Caban, 110 # Sample Containers: 6 (unfiltered Sample)
Evaluated: See Be COO Requested Analyses: X Total TAL Metals (EPA 6020A)
X Total TAL Metals (EPA 6010C)
TAL Metals using EPA Method 6020A: aluminum, antimony, arsenic, berium, beryllium, cadmium, chromium, cobalt, copper, lead, mangarièse, nickel, selenium, silver, thallium, vanadium, and zinc
TAL Metals using EPA Method 5010C: calcium, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel on this Date:
List all Locations Sampled by this Sampling Vessel St. Mr. 2 3 3
Tr.b-4
Additional Notes or Photos
ER-Tr.b-4-TI-1 - Scoop
ER-Tr.b-4-TI-Z- Fob Screen
ER-Trib-4-TI-3-Screen Tub

Field Supervisor Initials

Consumeration and the second and the

Date: 10/10/13

Sample Lead Initials

Date: 10/9/



Sample Id: ER-Trib-5-TA	Sampling Vessel: Tahoma
Date Collected: 10/9//3	Time Collected:
Samplers: Rupp Marros McDanie	# Sample Containers: (unfiltered Sample)
Equipment Evaluated: See below	Requested Analyses: X Total TAL Metals (EPA 6020A)
·	X Total TAL Metals (EPA 6010C)
cobalt,	um, antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, nickel, selenium, silver, thallium, um, and zinc
TAL Metals using EPA Method 6010C: calcium	n, iron, magnesium, potassium, and sodium
Additional Notes or Photos	
@ER-Trib-5-TA-1 (@ER-Trib-5-T4-21	shove ()
3ER-Trib-5-TA-3 (DER-Trib-5-TA-4)	tub) screen
±.	

Field Supervisor Initials

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Date: 10/14/13

Sample Lead Initials

Date: 10 /9//



and the second s	and the second s
Sample Id: ER-Trib 6-FA	Of H 11/26/13 Sampling Vessel: Taloma
	/
Date Collected: 10/10/13	Time Collected: 1400
Samplers: Rapp/Mauros/Beil	# Sample Containers: (unfiltered Sample)
Evaluated: See helow	Requested Analyses: X Total TAL Metals (EPA 6020A)
	X Total TAL Metals (EPA 6010C)
cc	luminum, antimony, arsenic, barium, beryllium, cadmium, chromium, obalt, copper, lead, manganese, nickel, selenium, silver, thallium, anadium, and zinc
TAL Metals using EPA Method 6010C: ca	alcium, iron, magnesium, potassium, and sodium
List all Locations Sampled by this Sampling Vessel Trib-6	el on this Date:
Additional Notes or Photos O ER-Trib-6-FA- 2) ER-Trib-6-FA- (3) ER-Trib-6-FA- (4) ER-Trib-6-FA-	2 (seive) 3 (tub)

Field Supervisor Initials

Date: 10/14/13

Date: 10/10/13



APPENDIX I APPROVED CHANGE REQUESTS

Change Request Form	
Upper Columbia River	Phase 2 Sediment Study
일었다. 경험 이번 - 기관원을 발표하는 것이다.	Change No. 1
Page:1 of2	Change No: 1
CHANGE REQUEST	
Modify positions of sample locations	LAL-4, LAL-5 and LAL-6
Applicable Reference:	
FSP Map A-9. External Reference Loca	itions in Canada
Description of Change:	
Upstream relocation of sample locations LAL-4, L	AL-5 and LAL-6 such that a 300 meter seperation is
achieved between the original sample location of	luster and the relocated sample location cluster,
while remaining approximately 100 meters from	the shoreline.
Reason for Change:	
Relocation of samples will avoid impacts to prev	iously documented archaeological sites. See
attached Figure for revised locations.	
attaction i guic for revises reservoire.	
Impact on Present and Completed Work:	
No impact is anticipated.	
Requested By: Michael Kelly	Date: 8/28/2013
(Scientist)	
Acknowledged By: David Hose	Date: 8/28/2013
(Task Leader)	· · · · · · · · · · · · · · · · · · ·
APPROVAL	
- mul pl	
URS Project Manager: Canti-M'Selfen	Date: 28 Aug 13
Teck Project Manager:	Date: 08/24(13
1 1/2/11	/
EPA Project Manager:	Date: 9/3/13

Document Path: J:\Projects/CADGIS\Teck\UCR\MXDs\MovingLALL456.mxd

Change Request Form Upper Columbia River Phase 2 Sediment Study							
opportunities in industrial indus							
Page:	1	of	8		Change No:	2	
CHANGE REC	UEST						
	Creation of SOP for Tributary Sediment Sampling						
Applicable Re		(Attachm	ent A2) of the Fi	eld Samplin Plan			
Description o	f Change:						
A new SOP (3-A) was prepared that details the procedures to be followed during tributary sampling activities. SOP 3-A is attached.							
Reason for C	hange:						
		fic to trib	utary sampling w	as provided in the Fin	al QAPP, dated March 2	013.	
Impact on Pr	esent and Cor None	npieted V	Vork:				
Red	quested By: _		J.R. Flande (Scientist)		Date:	9/23/2013	
Acknow	rledged By:		David Hose (Task Leade		Date:	9/23/2013	
APPROVAL							
URS Projec	t Manager:	6ª	Jul T. MC	Collough	Date:	9/23/2013	
Teck Projec	t Manager:	5			Date:	09/23/13	
EPA Projec	t Manager:	M	M	W/n_	Date:	9.23.13	

STANDARD OPERATING PROCEDURE SOP-3A

TRIBUTARY SEDIMENT AND POREWATER SAMPLE COLLECTION

Scope and Applicability

The purpose of this standard operating procedure (SOP) is to describe the procedures used to collect surface sediment (i.e., 0-6 inches) and porewater from tributary reference locations that cannot be accessed using a boat-mounted sampler (e.g., refer to Photo 1).



Photo 1. Example of conditions associated with tributary reference sample locations encountered in 2005.

Procedures described in this SOP may be modified in the field by the Field Team Leader, sampling personnel, and the on-site EPA representative, based on site conditions. Any field modifications to this SOP will be documented in the field logbook.

Equipment and Materials

Representative samples should be collected with this procedure, which requires vigilant care and precision by each sample team member. Equipment required for tributary reference sampling includes the following:

- Decontaminated Ekman™ or Petite Ponar™ dredge
- Decontaminated stainless-steel shovel
- Decontaminated sampling tools (e.g., stainless-steel or Lexan scoops, trowels, or spoons)
- Laboratory pre-cleaned decontaminated ≤140 mL porewater extraction syringe, airstone, Tygon® or similar polyethylene tubing, and 0.45 µm hydrophilic filters
- Large Lexan tub
- Stainless steel paddle wheel mixer
- Stainless-steel ruler and/or tape measure
- Laboratory-supplied sample containers, insulated coolers, and wet ice
- Chain-of-custody forms, custody seals, sample labels
- Re-sealable plastic storage bags
- Digital camera
- Field logbook, sample collection forms, and pens
- Project-specific field sampling plan and health and safety plan
- Personal protective equipment (PPE) as specified within the health and safety plan

Procedures for Sediment Sample Collection and Processing

- 1. Locate the sample station using Map A8 in the Field Sampling Plan (FSP), and confirm the sample coordinates using a handheld GPS unit.
- 2. Assess substrate conditions at the sample location and determine if conditions are amenable to collection of fine-grained sediment (≤2 mm). A minimum area of fine-grained sediment 2-feet square and 6-inches deep is needed to provide sufficient volume of material for sampling purposes. If conditions are not amenable (e.g., the dominant substrate size is gravel and cobble, or the current prevents safely accessing the location), the Field Team Leader will discuss with the on-site EPA representative moving the sampling location to an area within the reference tributary that is amendable to sediment sampling. If accessing the sample location requires wading, ensure that the sampler has proper PPE (e.g., waders and flotation device).

- 3. Identify the final sample location on a site map, obtain location coordinates with the GPS unit, document site conditions, location coordinates, and digital site photos in the field logbook as described in SOP-5.
- 4. Label sediment and porewater sampling containers prior to filling in accordance with SOP-2.
- 5. All sampling activities will be conducted using the prescribed PPE including but not limited to nitrile gloves.
- 6. Assemble the porewater sampler by attaching the airstone to a ≤140 ml sampling syringe with tubing. All components of the porewater sampler that contact the sample will be precleaned by the analytical laboratory and stored in a re-sealable plastic storage bag until needed for sampling.
- 7. In order to provide the sampling team with a flexible approach in response to varied field conditions, porewater samples may be collected by one of two methods:
 - i. Sample collection from a sediment grab sampling device
 - ii. Direct porewater collection from accumulated sediment in the Lexan tub

Detailed description of sampling methodologies for each of these scenarios is provided below.

a. Samples will be collected from within the grab sampler. Sediment samples will be collected using either an Ekman dredge or Petite Ponar grab sampler. An Ekman dredge is a lightweight sediment-sampling device with spring-activated jaws used to collect soft, fine grained sediment. A Petite Ponar dredge is a midweight sediment-sampling device with lever-activated weighted jaws that is used to collect more consolidated fine to coarse grained sediment. The following steps will be followed to collect a sediment sample depending on the sampler type selected:

i. Ekman dredge:

- 1. Decontaminate the dredge prior to sampling following procedures described in SOP-4.
- 2. Attach a nylon or wire rope and messenger line to the dredge. If the dredge is to be operated using a handle, attach the handle.
- 3. Fix the jaws so that they are in the open position by placing trip cables over the release studs. Ensure that the hinged doors on the dredge top are free to open.

- 4. Lower the sampler through the water column to a point 4 to 6 inches above the sediment surface.
- 5. Drop the sampler sharply onto the sediment. If a handle is used apply sufficient force to insert the sampler approximately 6 inches into the sediment. Repeated use of the sampler may be necessary to achieve the required depth if a handle is not available.
- 6. If a handle is used, depress button to trigger the jaw release mechanism. If a handle is not available trigger the jaw release mechanism by lowering the messenger weight down the line.
- 7. Raise the dredge at a slow and steady rate to prevent the doors from opening.
- 8. Place the sample dredge into the Lexan tub. Open the doors on the top of the dredge, determine the sediment penetration depth achieved by the sampler and record this information on the field forms. The sampler should penetrate to between 4 and 6 inches below the sediment surface. However, penetration less than 4 inches can be retained and additional sediment collected until the sampler reaches the 6-inch depth.
- 9. Collect a porewater sample from the top of the grab following procedures described in SOP-3. If porewater volume obtained from individual grabs is insufficient to collect a porewater sample, then it is allowable to collect porewater from the accumulated sediment in the Lexan tub.
- 10. Repeat steps 3 8 to collect sediment volume sufficient for chemistry and bioassay analyses.

ii. Petite Ponar Grab Sampler:

- 1. Decontaminate the grab sampler prior to sampling following procedures described in SOP-4.
- 2. Attach a nylon or wire rope to the grab sampler.
- 3. Arrange the grab sampler with the jaws in the open position, setting the trip bar so the sampler remains open when lifted from the top. If the sampler is so equipped, place the spring-loaded pin into the aligned holes in the trip bar.
- 4. Lower the grab sampler slowly through the water column to a point 4 to 6 inches above the sediment surface.
- 5. Drop the sampler sharply onto the sediment.

- 6. Pull up sharply on the line, triggering the jaw release mechanism to close the sampler.
- 7. Raise the dredge at a slow and steady rate to prevent doors from opening.
- 8. Place the sample dredge into the Lexan tub. Open the doors on the top of the dredge, determine the sediment penetration depth achieved by the sampler and record this information on the field forms. The sampler should penetrate to between 4 and 6 inches below the sediment surface. However, penetration less than 4 inches can be retained and additional sediment collected until the sampler reaches the 6-inch depth.
- 9. Collect a porewater sample from the top of the grab following procedures described in SOP-3. If porewater volume obtained from individual grabs is insufficient to collect a porewater sample, then it is allowable to collect porewater from the accumulated sediment in the Lexan tub.
- 10. Repeat steps 3 8 to collect sediment volume sufficient for chemistry and bioassay analyses.

If substrate conditions limit sampling success using either the Eckman dredge or the petite ponar grab samplers described above, sediment samples may be obtained by extracting sediment using a stainless steel shovel (or equivalent hand held tool):

- 1. Decontaminate the shovel prior to sampling following procedures described in SOP-4.
- 2. Using the decontaminated stainless-steel shovel, excavate sediment from to a depth of 6-inches until adequate sediment volume is obtained for both chemistry and bioassay analyses.
- 3. Place all excavated sediment into the Lexan tub.
- 4. Collect porewater from the accumulated sediment in the Lexan tub following the procedure described in SOP-3.
- 8. Porewater will be expelled from the syringe into labeled, laboratory-provided sample containers (Table A-2 of the FSP). This water will be distributed unfiltered or filtered as specified by the analytical method. Porewater samples will be stored in a cooler with ice until they arrive at the analytical laboratory.
- 9. The cultural resource monitor will examine the sediment to determine if cultural resources are present. If cultural resources are present, the field crew will follow instructions from the cultural resources monitor regarding what to do with the

recovered sediment and cultural artifacts, as well as whether to abandon the sampling station.

- 10. Using a decontaminated stainless-steel paddle wheel mixer the sample will be homogenized in the Lexan tub until the texture and color of the sediment appears to be uniform.
- 11. A qualified person will characterize the sediment and visually estimate the percentage of the homogenized material that is ≤2 mm in size as described in SOP-3.
- 12. The sediment will be characterized as specified in the study design. Characteristics that will be recorded in the field logbook and/or data form include:
 - a. Sediment type (e.g., silt, sand)
 - b. Texture (e.g., fine-grain, coarse, poorly sorted sand)
 - c. Color
 - d. Presence/location/thickness of the redox potential boundaries (a visual indication of black is often adequate for documenting anoxia)
 - e. Presence of biological structures (e.g., amphipods, macrophytes)
 - f. Presence of debris (e.g., twigs, leaves)
 - g. Presence of shells
 - h. Stratification, if any
 - i. Presence of a sheen
 - j. Odor (e.g., hydrogen sulfide, oil, other).
- 13. The homogenized sediment will be photographed. The photograph ID will be documented in the field so that the photograph can be subsequently labeled with station location, date, and time of sample.
- 14. Once the cultural and geological evaluations are complete, rocks that are greater than or equal to ½-inch diameter (≥ ½-in.) may be discarded from the homogenized sample after their approximate percent contribution to the homogenized volume has been determined and noted on the field collection form.
- 15. The homogenized sediment will be placed into labeled, laboratory-provided, sample containers using a decontaminated stainless-steel or Lexan spoon/scoop. Sample containers for a field duplicate sample (if needed) will be filled from the same homogenized sediment as the primary sample.

- 16. The container for the acid volatile sulfides/simultaneously extracted metals (AVS/SEM) analysis should be filled first, as the results of this analysis are affected by excess oxygen exposure. The AVS/SEM container should be filled with sediment leaving no headspace, and the preservative should be distributed through the sample by inverting the container or by mixing.
- 17. Sediment samples designated for chemical analyses by the analytical laboratory will be placed directly in a cooler with wet ice. Bioassay samples will be stored in a chilled refrigerated truck until delivered to the analytical laboratory.
- 18. All pertinent field forms, chain of custody forms, quality assurance/quality control documentation, and logbooks entries will be completed before leaving the sample vicinity. Record any deviations from the specified sampling procedures in the field logbook.
- 19. All non-dedicated sampling equipment (e.g., dredge, Lexan tub, mixer and sampling scoops) will be decontaminated between sampling locations in accordance with decontamination procedures (see SOP-4).

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CHANGE REQ							1
	Creation of S	OP for co	lecting EPA-chemistry o	inly split samples from	m ALS Laboratory	in Kelso, WA	
Applicable Re	eference:	P-1					
	SOPs section	(Attachm	ent A2) of the Field Sam	nplin Plan			
Description o	of Change:						
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	The state of the s	ıly split sa	mples from sediment sa	imples located at ALS	S in Kelso, WA. S	OP-10 is	
	attached.						
Reason for C	hange:						
	-	ific to coll	ecting EPA-spilt sample:	s from ALS was provi	ded in the Final O	APP, dated	
	March 2013						
Impact on Pr	resent and Co	mpleted 1	Nork:				
	None						
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			(Scientist)				
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STANDARD OPERATING PROCEDURE SOP 10

PROCESSING OF EPA CHEMISTRY SPLIT SAMPLES IN THE ALS LABORATORY

Scope and Applicability

This standard operating procedure (SOP) describes the general procedures for collecting EPA-chemistry only split samples at the ALS Laboratory (ALS) in Kelso, WA. EPA split samples were obtained in accordance with the Final Quality Assurance Project Plan (QAPP) for the Phase 2 Sediment Study dated March 2013 and shipped to ALS for temporary storage pending re-packaging from 5-gallon buckets to smaller containers and shipment to an EPA selected laboratory. This SOP applies to only the EPA-chemistry only split samples that were collected during the Phase 2 Sediment Field Program conducted from September 5, 2013 through October 24, 2013. The locations and designations of the chemistry only split samples are identified in Table 2-5 of the Quality Assurance Project Plan, Upper, Columbia River, Phase 2 Sediment Study, Split Sample Metals Analysis prepared by CH2M Hill and dated September 2013.

Equipment and Materials

Specific equipment and materials required to collect EPA split samples at the laboratory include the following:

- One Lexan tub
- One electric drill (preferably 18 volts)
- One stainless steel mixer paddle
- Two plastic scoop (s)
- Labeled Sample Containers (assumed to be provided by USEPA or their designee)
- Rubber hammer to close lid
- Six 5-gallon buckets to collect decontamination rinse water
- Three Spray bottles (DI, liquinox, Acid)
- 1L. Nitric Acid (10%)
- Liquinox
- Scrub brush
- Health and safety equipment (safety glasses, nitrile gloves, and coveralls or apron)

Procedures

The steps listed below should be followed to collect EPA chemistry only split samples at the laboratory:

- 1. Identify and locate sediment samples listed in Table 1.
- 2. Don appropriate health and safety equipment
- 3. Identify a suitable decontamination area and containers used to collect the rinse waters.
- 4. Decontaminate the following in accordance with SOP 4 of the QAPP (TAI, 2013).
 - a. Lexan tub
 - b. Two plastic scoops
 - c. One stainless steel homogenizer paddle
- 5. Each sample will be processed individually. Only one bucket should be open at a time.
- 6. Identify a sample to be processed and take the bucket to the processing area.
- 7. Remove bucket lid.
- 8. If sediment is primarily sand-sized particles the contents of the bucket may be emptied into a decontaminated Lexan tub for homogenization (**Proceed to step 10**). If sediment is primarily fine-grained particles and the bucket is approximately three quarters full, the material may be homogenized in the sample bucket (**Proceed to step 9**). If the bucket is more than three quarters full, the sediment may be emptied into a decontaminated Lexan tub for homogenization (**Proceed to Step 10**).
- 9. For material mixed in the sample bucket the following should occur:
 - a. Insert homogenizer paddle attached to drill into bucket.
 - b. Turn drill on and move paddle throughout the sample until the sample is satisfactorily mixed.
 - c. Using a decontaminated plastic scoop, remove sediment from the bucket and place into sample container(s). Label the sample containers if necessary.
 - d. Replace the lid on the bucket and return the bucket and remaining sediment to storage.
 - e. Decontaminate the mixing paddle and scoops in accordance with SOP 4 and proceed to the next sample (Step 6) until all samples have been processed.
- 10. For material mixed in the decontaminated Lexan tub the following should occur:
 - a. Place sediment into the decontaminated Lexan tub.
 - b. Use scoops to homogenize the material if the material is primarily sand sized particles. Use the decontaminated mixing paddle to homogenize the material if the sediment is primarily fine grained particles.
 - c. Mix the sample until it is satisfactorily mixed
 - d. Using a decontaminated plastic scoop, remove sediment from the bucket and place into sample container(s). Label the sample containers if necessary.

- e. Return the homogenized sediment to the bucket it originally came from.
- f. Replace the lid on the bucket and return the bucket and sediment to storage.
- g. Decontaminate the mixing paddle, Lexan tub and scoops in accordance with SOP 4 if used to mix the sample. Proceed to the next sample (**Step 6**) until all samples have been processed.
- 11. After all samples have been mixed and the necessary sample containers filled, ensure that the equipment used to homogenize the sample (tub, scoop and mixing paddle) have been decontaminated in accordance with SOP 4 of the QAPP. Using laboratory supplied Deionized (DI) water perform a final rinse of the equipment. After the final rinse is compete, pour additional DI water over the equipment and collect it in appropriate sample containers listed in the QAPP. Two containers will be filled for each piece of equipment and submitted for metals analysis by ALS in accordance with the QAPP. The equipment rinsate (ER) samples will have the following Sample IDs, where Station ID (Table 1) corresponds to the sample collected following the last decontamination of the sampling equipment:
 - a. Lexan Tub ER-Station ID-LAB-1
 - b. Homogenizing paddle ER-Station ID-LAB-2
 - c. Scoop ER-Station ID-LAB-3
- 12. Clean up area and ensure sample containers and buckets are stored properly.
- 13. Sign over custody of the sediment samples to the EPA or authorized representative.

Table 1: EPA Chemistry Only Split Sample Locations

Station ID	Location Priority	Proposed Analysis
8-C4	Primary	TAL Metals
Ref-4	Primary	TAL Metals
Ref-8	Primary	TAL Metals
6-R3	Reserve for 6-B3	TAL Metals
6B-C2	Primary	TAL Metals
7-B5	Primary	TAL Metals
5-B2	Primary	TAL Metals
5-B5	Primary	TAL Metals
5-B6	Primary	TAL Metals
5B-C3	Primary	TAL Metals
5-C3	Primary	TAL Metals
4-B3	Primary	TAL Metals
4-C6	Primary	TAL Metals
3-B3	Primary	TAL Metals
3-C4	Primary	TAL Metals
Trib-3	Primary	TAL Metals
2-B2	Primary	TAL Metals
1B-R2	Reserve for 1-B2	TAL Metals
1-R5	Reserve for 1-C1	TAL Metals
1-R8	Reserve for 1-C3	TAL Metals

References

CH2M Hill, 2013, Quality Assurance Project Plan, Upper, Columbia River, Phase 2 Sediment Study, Split Samples Metal Analysis. September 2013

TAI, 2013. Final Quality Assurance Project Plan for the Phase 2 Sediment Study. Prepared by Exponent and HDR HydroQual for Teck American Incorporated, Spokane, WA. March 2013.