

APPENDIX A

AUGUST 9, 2009 STRATEGY MEETING SUMMARY

Date: September 9, 2009

To: Michael Wilcox (USDA Forest Service), Neli Nelson (Village of Kasaan), Annemarie Palmieri (ADEC), Marty Brewer (ADEC), Ken Marcy (USEPA), Lori Verbrugge (DHSS), Jill Hedgecock (URS), Cary Brown (URS), Nancy Darigo (URS), Mark Vania (URS)

From: Mike Gray (URS)

Subject: **Strategy Meeting Summary and Conceptual Plan, Salt Chuck Mine**

Strategy Meeting Summary

A technical planning meeting for the Salt Chuck Mine (Site), Prince of Wales Island was held at the URS office in Anchorage, AK on August 13, 2009 to discuss future environmental assessment and planning activities in support of a potential removal action on USDA Forest Service (Forest Service) managed lands at and near the former mill site. The proposed removal action would be funded using federal stimulus funds under the American Recovery and Reinvestment Act (ARRA). Meeting attendees (in person and via telephone) included: Michael Wilcox (Forest Service), Neli Nelson (Village of Kasaan), Anne Marie Palmieri (ADEC), Marty Brewer (ADEC), Ken Marcy (USEPA), Jill Hedgecock (URS), Cary Brown (URS), Nancy Darigo (URS), Mark Vania (URS), and Mike Gray (URS). Lori Verbrugge (DHSS) was unable to attend.

The initial intent of the meeting was to discuss the scope of a planned focused EE/CA to be developed for Forest Service-managed upland areas of the Salt Chuck Mine site in order to maximize use of stimulus funds. A constraint was that a contracting package committing ARRA funds for activities at the Site would need to be advertised by mid December 2009, with fund obligation shortly thereafter. Upland zones (above the mean high tide line) are within Forest Service-managed lands, and intertidal zones are State of Alaska-managed. The Upland EE/CA, as preliminarily proposed, was to be developed from and built upon the existing Draft EE/CA document already prepared for the overall Salt Chuck Mine site (dated March 2007), as well as related technical comments generated through agency review of that document.

Through the process of discussions at the meeting, a preliminary consensus among participants suggested that stimulus funds might be better applied by clean up of POL-contaminated soil with a presumptive remedy, rather than through continuation of the EE/CA process. The primary basis for this view was consideration for the limited time to adequately complete an upland focused EE/CA; the expectation that the site as a whole will likely be listed under the USEPA NPL (Superfund); and through the subsequent CERCLA RI/FS process, a site-wide baseline risk assessment, comprehensive remedial action objectives, and remedial alternatives would be developed to address issues in both upland and intertidal zones, making additional EE/CA process activities in the upland zone at this time potentially duplicative.

The more limited approach discussed in the meeting would include removal of mine debris in and around the mill site for safety purposes, removal of POL-impacted soil at the AST area, and

possibly some commingled POL/metals-impacted soil at the south end of the AST area near Building C4. The soil removal would be based primarily on exceedances of human-health-based cleanup levels. Meeting participants agreed in principle to the use of alternate cleanup levels for the AST area based on a Method 3 calculation, contingent on ADEC's review and approval of the calculation presented in the existing Draft EE/CA document. The Method 3-calculated migration to groundwater cleanup level for the AST area exceeds the maximum allowable 12,500 mg/kg under 18 AAC 75, so the applicable cleanup level for DRO in soil would revert to 8,250 mg/kg based on direct human exposure. ADEC remained concerned about potential migration of non-POL contaminants through groundwater to surface water, and it was agreed that cleanup levels for potential commingled metals-impacted soil would be based on the most conservative of Method 2 soil cleanup levels, including migration to groundwater levels.

Confirmatory sampling following the limited cleanup would include both soil and groundwater (if present). Meeting participants agreed in principle not to apply ecological risk-based cleanup levels to the limited action, but instead to revisit ecological risk in the AST/commingled area in the later site-wide risk assessment based on confirmatory sampling of media that remain onsite. To this end, it was agreed that screening levels in ADEC's *Ecoscoping Guidance* would be incorporated into DQOs for the confirmatory sampling program, so that data quality would be sufficient for later risk assessment use.

Addendum and Conceptual Plan

Following the 8/13/09 meeting, the Forest Service re-evaluated the limited approach in light of new internal direction regarding the obligation window of stimulus funds, and concluded that for the purpose of maximizing the effectiveness of cleanup activities under the stimulus-funded program, inclusion of some CERCLA hazardous substance impacts should be reconsidered. Thus, the conceptual path forward currently being proposed is to complete a focused EE/CA for selected upland areas to support a stimulus-funded interim removal action. The Focused Upland EE/CA would follow the human health-based approach agreed to in principle for the AST/commingled area, but would also include two additional upland areas that clearly exceed human health-based cleanup criteria (Mill Site Tailings and Building C4). Upland areas that are more clearly driven by ecological risk concerns (including Tailings Piles D14 and D15) would not be considered in the Focused Upland EE/CA, but would be addressed under the future site-wide program following NPL listing of the site. The Focused EE/CA would include a breakdown of removal action alternative costs by area of concern, so that the Forest Service could apply decision-making to selected areas based on the stimulus fund award cap and the possible future availability of additional funds.

Because the schedule of the stimulus-funded removal action would require obligation of funds by September 2010, the Focused Upland EE/CA would be completed using existing data, and would be followed shortly by a more detailed design and cost estimate of the selected alternative in order to meet schedule constraints. URS is preparing an EE/CA contract modification proposal for review by the Forest Service.

APPENDIX B

OCTOBER 2009 SITE VISIT FIELD NOTES

SALT
CHUCK
MINE



"As in the Rain"
ALL-WEATHER
FIELD BOOK
No. 350 N

EE/CA

Site Visit

INCH CM

MEASUREMENT CONVERSIONS

IF YOU KNOW... TO FIND...

IF YOU KNOW...	TO FIND...
INCHES	MILLIMETERS
MILLIMETERS	INCHES
FEET	METERS
METERS	FEET
YARDS	METERS
METERS	YARDS
MILES	KILOMETERS
KILOMETERS	MILES
POUNDS	KILOGRAMS
KILOGRAMS	POUNDS
TEMPERATURE (FAHRENHEIT)	TEMPERATURE (CELSIUS)
TEMPERATURE (CELSIUS)	TEMPERATURE (FAHRENHEIT)



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Project Salt Chuck Mine
26219785

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 TACOMA, WA 98421-3696 USA

2 Cary Brewer

10-27-09

- Travel day from Seattle to Thorne Bay
- Meet Mark Vance & Michael Wilcox in Ketulukan (and Ardebyrd)
- Take ferry from Ketulukan to Holts
- Jim from Welcome Inn gives proof form for Holts to Thorne Bay

~~Cary Brewer
10-27-09~~

Site Action Items

- Measure Debris areas
- Measure Bayou
- Estimate Height of Bayou Dike
- Estimate Boundary of Work Areas
- Count Pines
- Count Trees
- Estimate Tide Change
- Confirm limits of POT area
- Burn POT Area

Office Action Items

- Wood Disposal Options
- Metal Disposal Options
- Feasibility of conveyor belt
- feasibility of overhead tram
- tree removal cost
- stump removal / POT Soil segregation
- Lead based paint considerations
- Creosote Bayou? considerations
- Have Closeup Aerial Photo of the Mill Site taken
- Consider cost to deal with surface/perched weeds run off
- Consider chipping wood debris
- Flow bag to burn all wood debris

Tree / Stump Removal

of trees in POZ area

Range of ϕ

Range of heights

Mainly Dang Fir & Cedar. Actually the trees are not Dang Fir more likely Spice

Debris Removal Thoughts

- Leave concrete foundation equipment in place
- Don't let debris removal significantly interfere with CRCA process
- Place back metal in a safe manner
- wood attached to cool metal items can remain. No need to detach
- Placement not critical
- OK to keep some large timbers
- Siding & misc pipe can go
- All safety issues should be removed
- Don't forget buried debris

12 Cary & Mark

10-28-09

1330 Lunch in the woods

Wind picking up &
get into golden

1400 CAD Map out PD

— Mark testing soil depths

— in PD - every
Holes using hand auger
& checked for odor

★ PD map appears
off in scale

— Mark up frame from old
E/C/A with dimensions so
we can correct later,

1450 Check Bay Dredger

TIDE 4:05 pm 4.5 ft
9:50 pm 12.0 ft

— Tide is way off from
Bay's length with
height 3.5 ft tall

— water side of Bay is
open to the sea. Surface
has holes & potential Hazard

Cary & Mark 10-28-09

Questions

— Can logged trees be
skipped on site and left

— Can the stumps be
burned?

— What are stump disposal
options

— Can PD site be left as
exposed bed rock. Yes

— If not is grass acceptable

— Discuss - Thomas Bay
Landfill vs DAN Flank

• Do we need to have Grass

• How do you prevent Alder
or other trees from taking
over

Thursday
 10-29-09
 Camp to Mark
 Brook Vanin
 2900ft Overcast
 Get picked up by the
 Forest Service Crew
 805 Pick up Polaski @ Ranger Station
 815 Meet Delli Village of
 Kassa - Rap
 840 Start hike into the
 Mine via South Chinoz Trail
 920 Arrive at Mine site
 930 Review area west of
 Mine for potential laydown
 955 Take photo of bays
 near which hold the piles that
 water up to the piles that
 are east of
 Mark & Delli checking for
 fungus pile by bays
 for thickness & extent
 Also checking for Perdom
 area
 1010 Start to measure off
 laydown areas w/ Michael
 Start to RAN
 In all we designated three
 sections for potential laydown
 Camp to Brook Vanin 10-29-09

Questions

- Where can burn pit be
- Can tenting spit be used to burn wood
- How far does burn pile need to be from trees
- Can a chipper be used for extremely large beams
- Can chipper handle some material
- How much to have floating hoisting at the site
- Do we need to maintain a buffer for harvesting vegetation to the bay?

Cary & Dawn 4:20 10-29-09

Identified another 100' by 60' area NW of laydown area on previous page. It's slightly larger in width but has a bit more slope.

Break for lunch in the woods. Took picture of Bay. The tide is near full max.

Tide Chart Says
High was at 10:35 @ 13.8'
Low will be at 4:49 @ 3.5'
Keota Bay correction
High +0.03 +0.5
Low +0.04 -0.1

11:35 Lunch over. Michael checked top soil depth into M. Potential laydown area is 1" to 5" but overall it is ~2" thick. Mark to dig by upper Mill. Cary to check tree counts.

Cary & Dawn 10-29-09

TREE COUNTS

* Upper laydown/Storage
Quantity ~40
Type Red Alder
Range 4 to 24"
Ave Ø 12"
Ave Height 50'
Area is thinned out

* Middle Laydown Area
Quantity ~120
Type Red Alder
Range 2 to 30"
Ave Ø 10"
Ave Height 50'
Medium Dense Small FRS

* Lower Laydown Area
Quantity ~100
Type Red Alder & Small Fir
Range 2 to 24"
Ave Ø 6"
Ave Height 40'
Dense

* PDL Area
Quantity ~200
Type Dogwood, Fir, Cedar
Range 4 to 30"
Ave Ø 9"
Dense

Cary & Mark 10-29-09
Showers 45°F

1215

Done w/ tree count into
checkney area west of
Motor Grader

Area very open but
only 25-30' wide

* I think it's best to
stop at motor grader
so it doesn't have to be

moved
Catoon Metal Debris

4 motors

Fairbanks Morse

~10 ft tall

~4 ft wide

length depends on # of
cylinders

3 motors are 2 cyl 8'

1 motor has 4 cyl 14'

They are mounted on
massive concrete foundation
that appears to be 5-8'
deep & thick into bedrock

I believe material can be
removed from surroundings w/o
compromising them.

Cary & Mark 10-29-09

Questions

Can we put wood debris
metal debris POT contained
in a Monofill

If we mix water in
the repository how
do requirements change

Wood disposal options

Metal disposal options

Fairbanks disposal options

What qualities for Vegetation
on top soil in SE Alaska

Cany & Mark 10-29-09

1245

Mark is still digging holes west of Milk Building
 - He is encountering sand petroleum

* Wood debris varies greatly in size from 2x4s upto 18 square timbers

Nearly all has nails throughout and some has bolts or even metal fire rods

* Lower portion of upper area has 6x8 concrete

structure and takes up like material on the north side of it

- Timber in this area is 2x8 & larger 12x12'

* * * Best to estimate 50sq original building dimensions - mid level wall height is 16ft

- N/S Wall is 18.5ft

- Roof is peaked
 Cany & Mark 10-29-09

Cost Items

- Screener for Rock Material 2" & 4" & larger

- Heli capter

- Top Soil

- Saw Dust

Cary & Mark
at least 450F 10-29-09

1330 Map out haulup limits surrounding the MAF site

- Mark skip tubage just north of Dunge 1 km²

Shaw on oval maps

- 14 measures out to be 500F north/south about 5 FT tall relative to sun- windings & width from 20 to 300F

1500 Look at former structures east of the 40L area

1510 Cabins 20' east of tree like

1515 Leave site detake final file photo

1600 Back to truck and Lake trail head

- Nelli from Village of Kossan takes off

1620 At barrow pit #1 to take rock sample

1630 Filled new Core pit

1700 Head back to town

1715 At Thome Bay landfill to check Top Soil

Cary & Ben 10-29-09

- Surface of landfill doesn't really have vegetation. Surface consists of bare patches of top soil, small ditches, small spruce & moss

- No signs of erosion

- It appears to me that OERM is actively removing trees.

- Top soil is very dark and organic rich, wood chips visible in places

1745 Done for day.

~~Ben~~
~~Cary & Ben~~
10/29/09

Caydon & Mark Vaux 10-30-09

6:15 Tim drives project team from Phone Bay to Holos Ferry

9:00 On ferry to Kotelika

11:00 Arrive Kotelika

11:30 At Airport

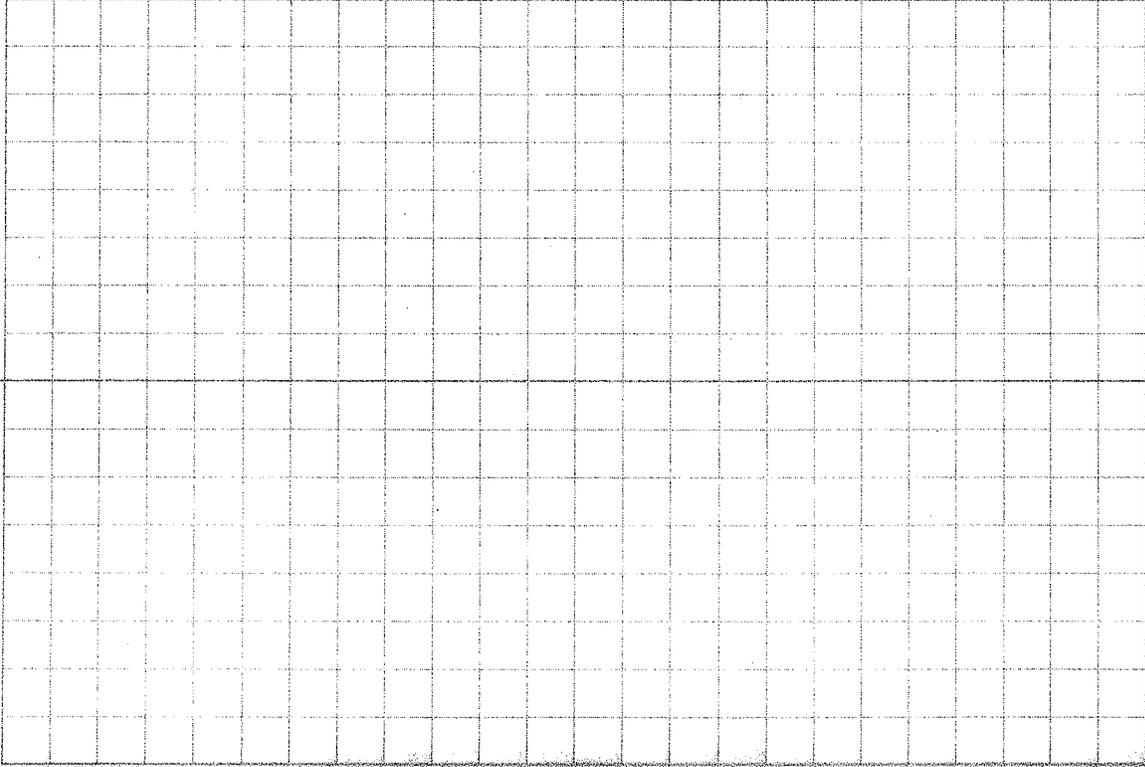
13:30 Fly to Seattle

Others still waiting for flights

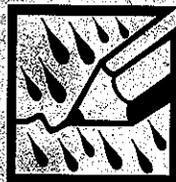
15:15 Arrive in Seattle

16:45 Done for day

~~Caydon
10-30-09~~



SALT Chuck 2009 Site Visit



"Rite in the Rain"®

ALL-WEATHER

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No. 371

10/28/09

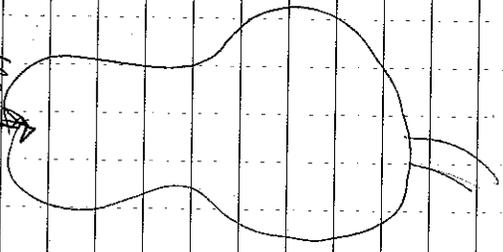
0830 Arrive 1st Borrow Pit

See High walls slopes
Recent clearing of trees around edges.

0915 Arrive 2nd Borrow Pit. Higher than 1st Run off problem on west side.

180 - 150 - 60

Run off



10/28/09

0942. arrive dams. 7 = Penton
Loft for water pipe

1026 Electrical loco.

1000 No Batteries outside of loco

Conclude that we have sampled
~~the~~ Soil around Loco
- FS Wint's Batteries
to go away. Very agrees
But it is up to SSTO

1100 Arrive Mills A/C

Fire High in coming air

10/28/09

Mill site is built on waste
Rock not tailings - tailings
are into mixed. Phos

Bench that mill site is
10'-6" high. from Hightide
Line

TP4 on edged mill debris
Hit H₂O at 25"
Water has heavy Hydrocarbon
odor + Sleen

10/28/09 Measurements to Refusal
tailings measurement out 3
130 ft



Debris

Hit water at 25"
Hit water at 2.5'

10/28/09

at Assay Shop Shop's
5' above High tide
line

TP1 1/2' depth corner
of Assay shop. 30" from
Post (organic) to soil. Brown
ground - Refused organics are
wet at just above soil
horizon.

TP2 at corner of Drum Cr/b
30" Black organics get
wet.

TP3 15' from Drum Cr/b
30" to Refused
No Hydro odor.

TP4 20" Refused Black soil no
odor. 15' from NE corner
Drum Cr/b.

10/28/09

1400 TP5 - 12' North of Drum Cr/b
20" No Hydro odor. Black soil

TP6 1/2 way between Drum Ca/b
20' to Refused Black organics
No Hydro odor.

TP7 to west of TP6 - 25" Refused
Black soil ~~to~~ organics No odor

TP8 10' South west of SW corner
upper Drum ca/b 25" ~~ET~~
Black soil 25" - light brown
soil with gravel. No hydro odor

TP9 5' south of SW corner of
AST pad 24" to Refused Cr/b
Black organics 18" of Lt Br
soil

TP10 - 85' SE of AST 2
Black soil to 20" water at 20"
Lt Brown soil gravel of 24"

10/28/07

TP11 East of upper Down Cache - 30" of 18" to 20" all black soil water of 20" No Hydro C odor

TP12 10' North of TP4 borders at 12" base. It is mineral of 10" no odor water in TP

11:530 walk out of site

Had coffee

10/28/09

meeting with MW
20 48 - Build Debris Laydown down yard on west end of mill

Reveg? - no top soil - look at frame
Buy Landfill what material did they use

Trees & Stumps Michael will talk with Jennifer

Debris - keep most here

- Anything not safety hazard - stage & place back

man goes metal with sharp edged

metal string - goes small run Haz Stays cold metal attached to wood created stays

10/29/09

0930 Arrive site

Overcast light rain & wind.

TP2 6' south of TP with petzador
Hot Hydrocarbon at 12' bgs.

TP3 20' south of TP1 - 10/29/09

Hydro impeded encased at

4' bgs - 4ft of tails to

Refusal at 4' picky w/ grass
& used debris bottom of tails?TP4 20' North of Present High
Pipe - slight High odor at
20" not very strong. 20" of
tails. 8' west of Base.TP5 30" refusal all tailings
no water No odor.

30' SW of TP1

10/29/09

1200 at mill site Tailings

Depth TP3

TP1 at SW corner of mill
6-8" tailings over gravel/tails

TP2 8' West of Mill 6" of

crushed gravel at tail

~~depth unknown. Tails to 48" no water.~~

TP3 20' West of mill 24" of

Tailings only but 24" hit gravel

TP4 6" soil on top of Tailings gravel
depth unknown

TP5 10' North of TP6

Black/Grey Hydro impacted tailings.

Black soil to 20" Green tailing

below. But still Hydro odor.

TP4 Refusal no gravel.

TP6 - Tailings to 30" bgs

then gravel. Little water. 20 bgs

Holes Dry to 20" bgs

10/29/09

TP7 8' SW of TP6
24" to Refusal Slight
Hydro odor. 24" of Tailings

TP8 8' North of TP5
Hydro carbon. Impacts from
Surface to 20" eggs
hole filled with water
could not Dig Deeper.

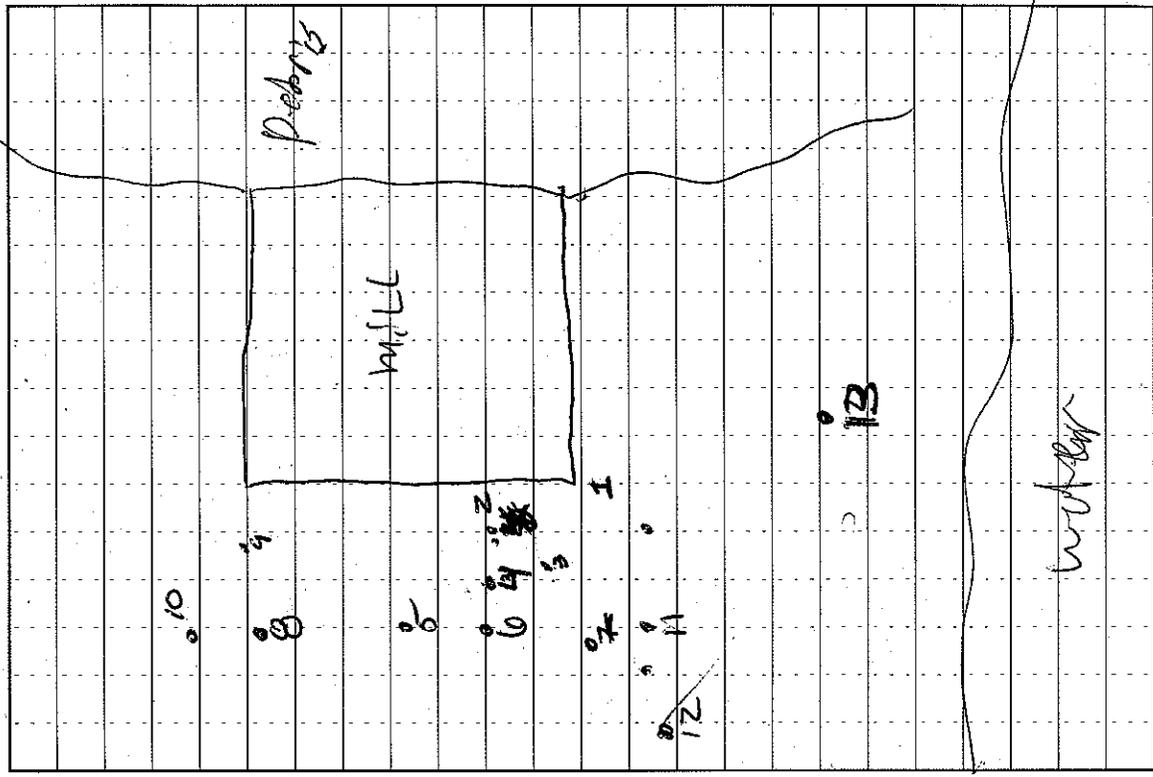
TP9 13" tails - no odor - water

TP10 15" Tails + gravel no odor
- water

TP11 20" all gravel - Refusal
15' South of TP6 no
odor

TP12 8' west of TP11 24"
all tailings refusal

Tailings one not consistent spiky
across west side of mill.



10/29/09

TP 13 8" of tailings above
Rock - Refusal

1400 at East side of
mill - tailing pile North of
North end of Barge - Covered
with bucket debris
has not been mapped
30 X 15' mix of tails + waste
Rock. at least 36" Deep.

1444 in POL Area Looking for
Area of highest POL
Dug first pit in Bldg Foundation
Found 13' rot in Current Gypsum
TP 12 20' south of center of Bldg.
low odor no water to 20"

TP 13 - Center of Bldg. - Hot

TP 14 - Hole to 36" - water and
Hydro odor,

TP 15 - North side of Foundation
Slight odor at 30" by 5.

Scale: 1 square =

10/29/09

TP 16 25' south of ASTO
Slight odor at 30" by 5.

TP 17 SE Corner of Bldg.
odor at 30"

TP 18 20' East of South East
corner of Foundation

TP 19 40 west of Bldg. No odor
at 30" wet

15/8 off site to Bannock
+ Thordberg landfill.

Scale: 1 square =