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*Final Environmental Impact Statement*  
*Thacker Pass Lithium Mine Project*

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*Appendix P, Part 4 of 8*

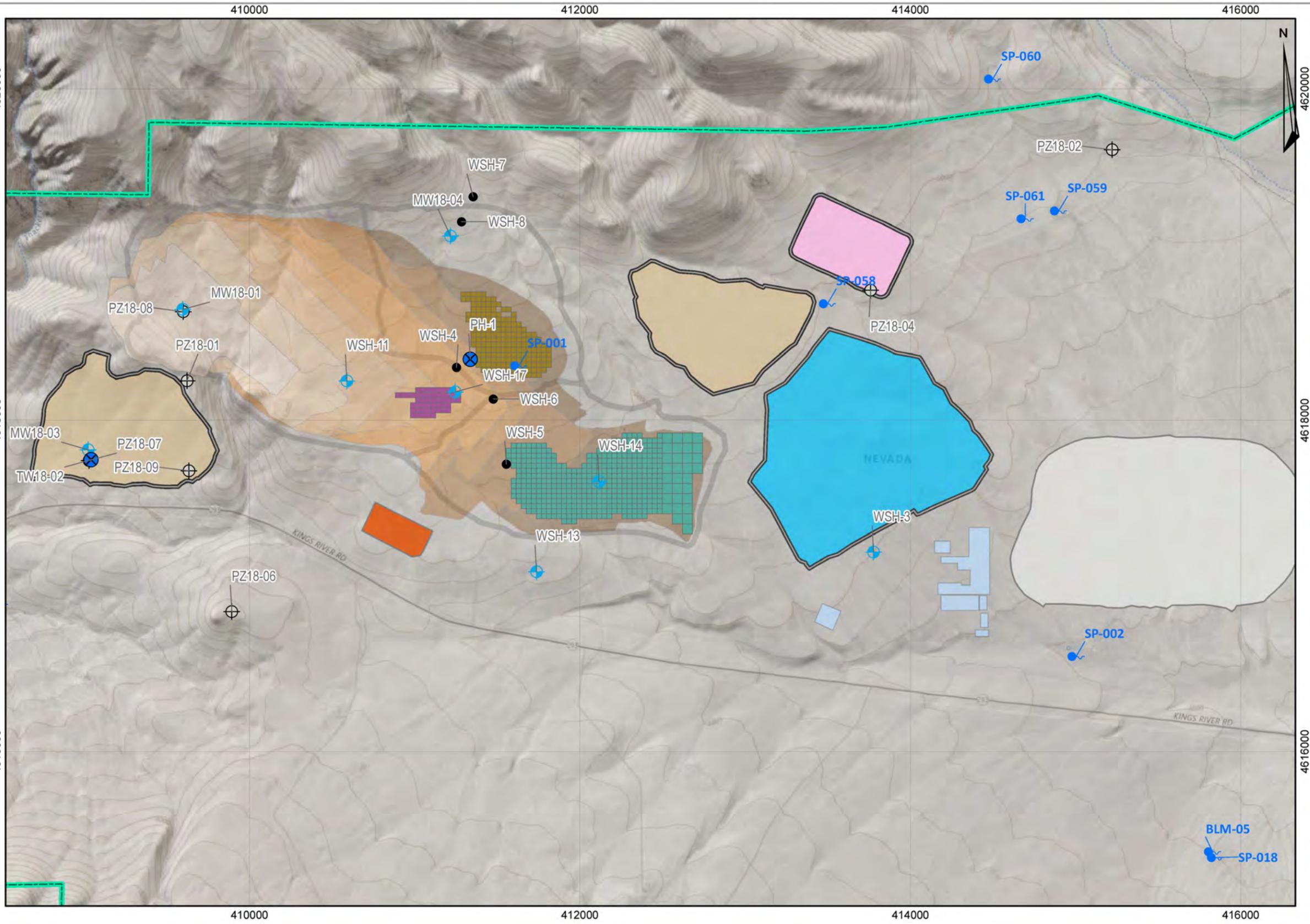
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Water Information

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

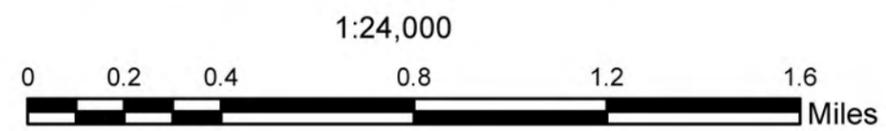
**Reach**

- South sub-pit
- West sub-pit
- North sub-pit
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile
- Thacker Pass Project AOI

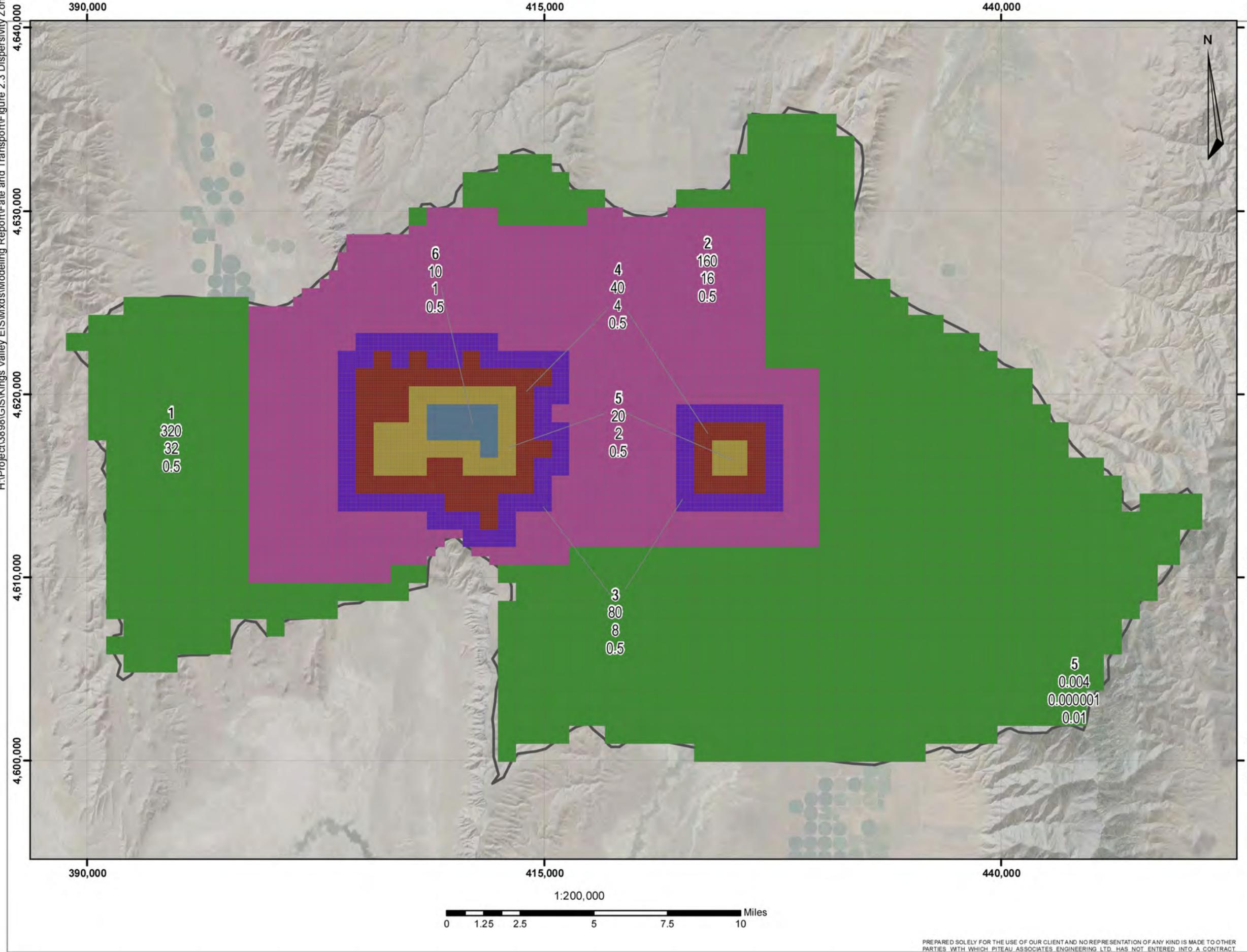
**Specified Concentration Cell Map**



CLIENT:	LNC		
PROJECT:	Thacker Pass Project EIS		
JOB:	3898		
DRAWN:	LH	CHECKED:	TC
DATE:	May 2020		
FIGURE:	6.2		



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.



Model boundary  
 Thacker Pass Project AOI  
 Proposed pit outline  
 **Zone**  
 Longitudinal Dispersivity (ft<sup>2</sup>/d)  
 Transverse Dispersivity (ft<sup>2</sup>/d)  
 Vertical Transverse Dispersivity (ft<sup>2</sup>/d)

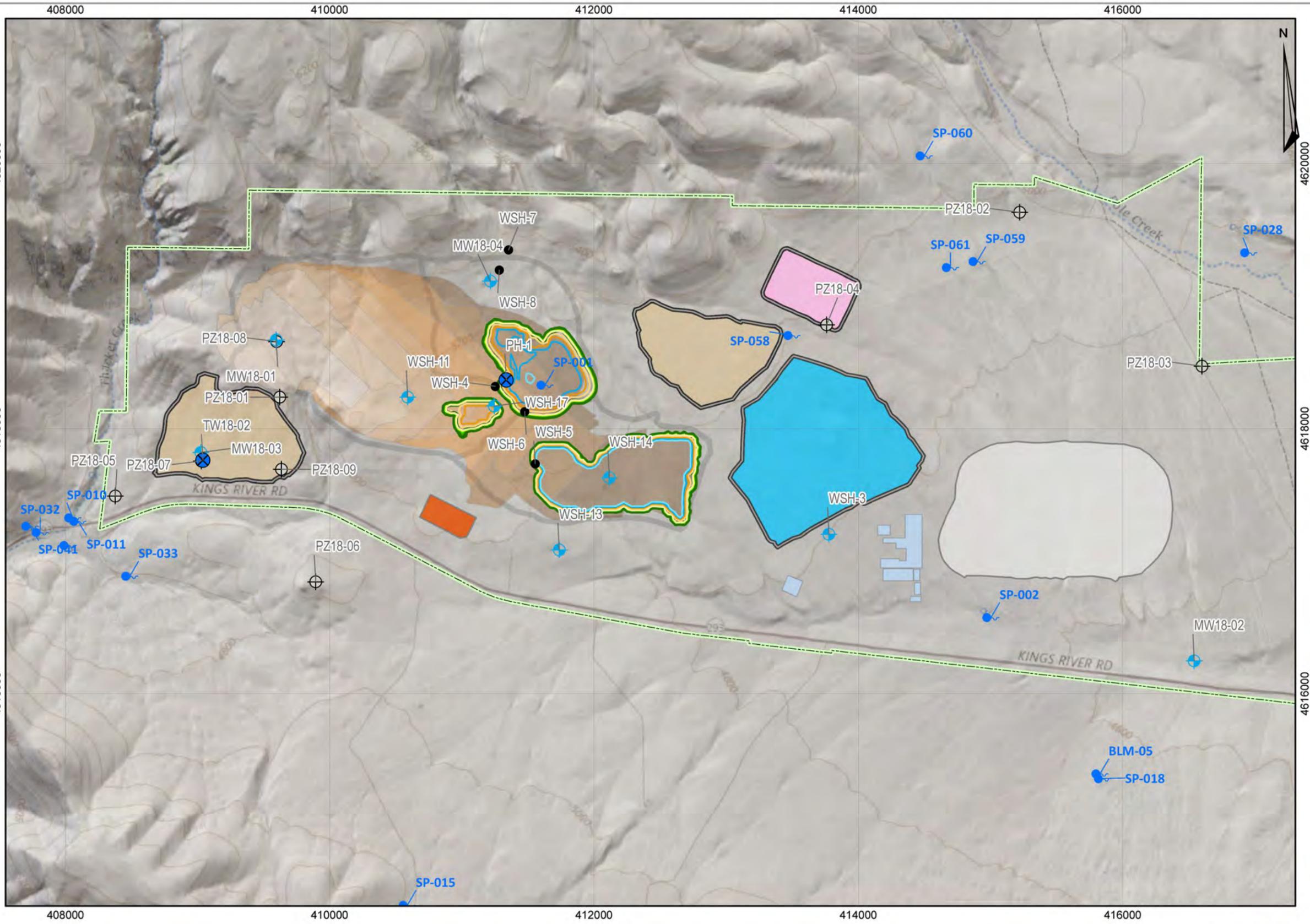
**Model Dispersivity Zones**

**PITEAU ASSOCIATES**  
 GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT: LNC	
PROJECT: Thacker Pass Project EIS	
JOB: 3898	
DRAWN: LH	CHECKED: TC
DATE: May 2020	
FIGURE: 6.3	

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**25-yr Sb Isopleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03
- 0.04
- 0.05

--- Thacker Pass Project Permit Boundary

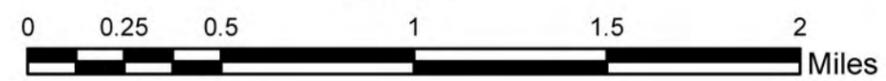
- ▭ Sub Pits
- ▭ Mine Facilities
- ▭ Process Plant
- ▭ Tailings Facility
- ▭ Gangue Stockpile
- ▭ WRFs
- ▭ Growth Media Stockpile

**Maximum Sb Concentration Isopleths at 25-yr Post-Closure (Proposed Action)**



CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.5	

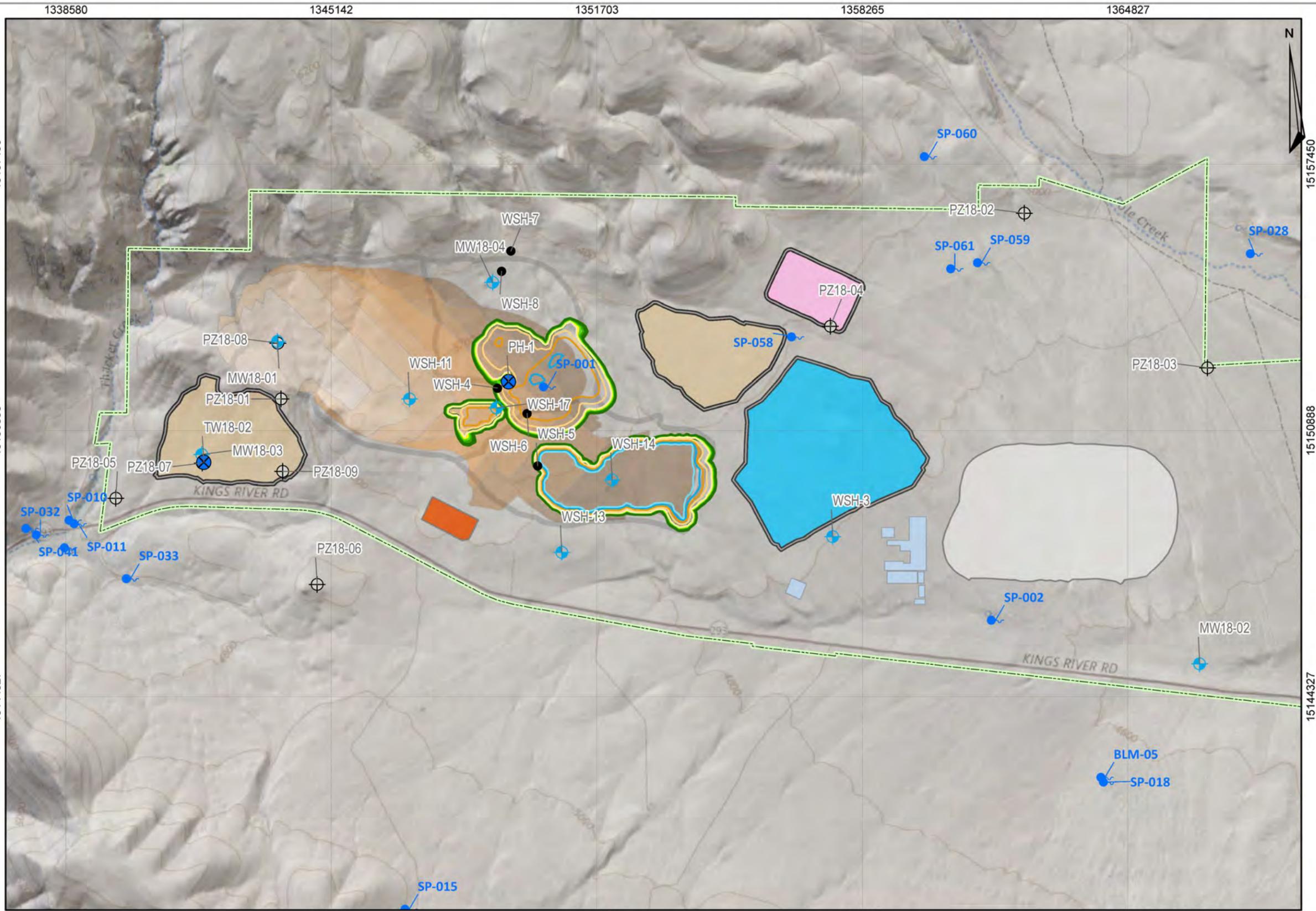
1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

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H:\Project\3898\GIS\Kings Valley EIS\Mxd\Modelling Report\Fate and Transport\Figure 2.6 50 yr Simulated Fate and Transport\_Sat Backfill.mxd  
15157450  
15150888  
15144327



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**50-yr Sb Isopleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03
- 0.04
- 0.05

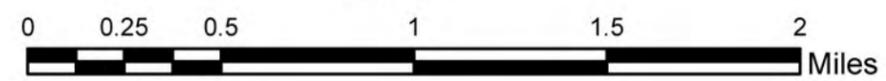
- Thacker Pass Project Permit Boundary
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isopleths at 50-yr Post-Closure (proposed action)**

**PITEAU ASSOCIATES**  
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

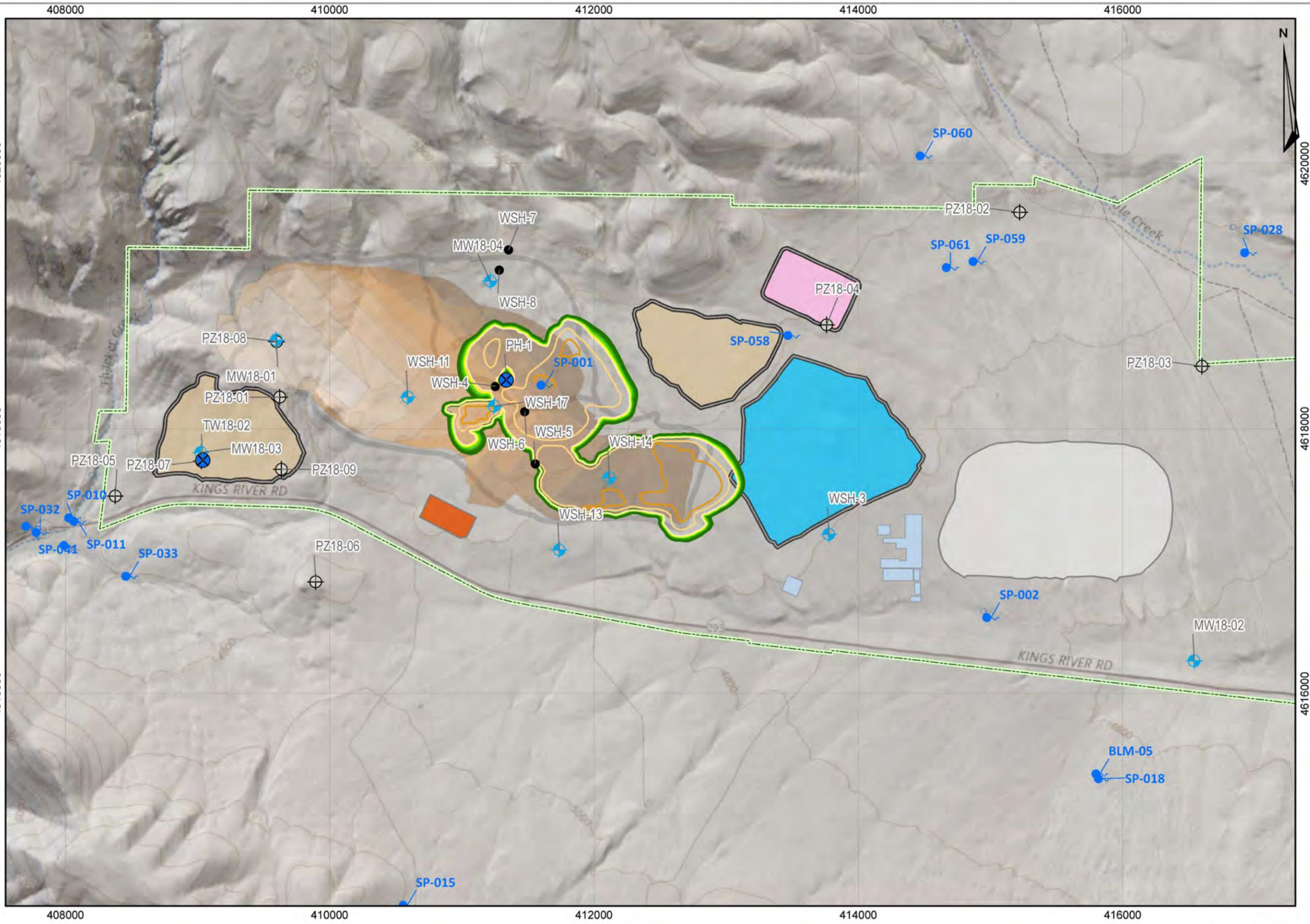
CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.6	

1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**100-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03

Thacker Pass Project Permit Boundary

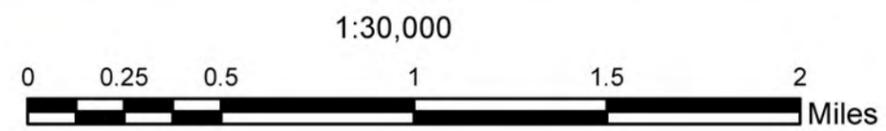
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 100-yr Post-Closure (Proposed Action)**

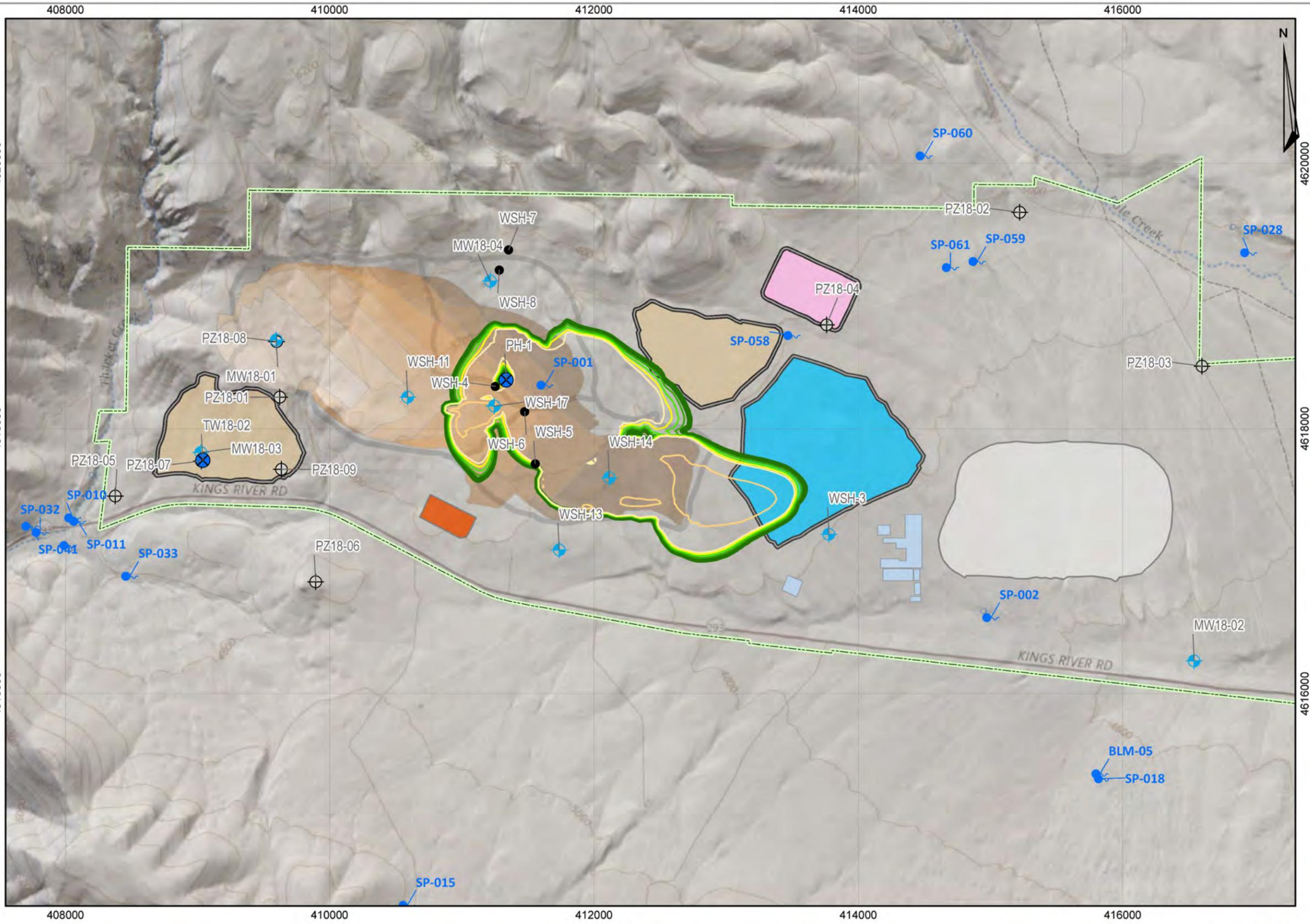


CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.7	

Profile I NRVs  
Sb = 0.006 mg/l



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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**200-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02

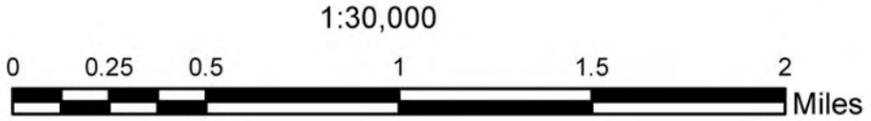
- Thacker Pass Project Permit Boundary
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 200-yr Post-Closure (Proposed Action)**

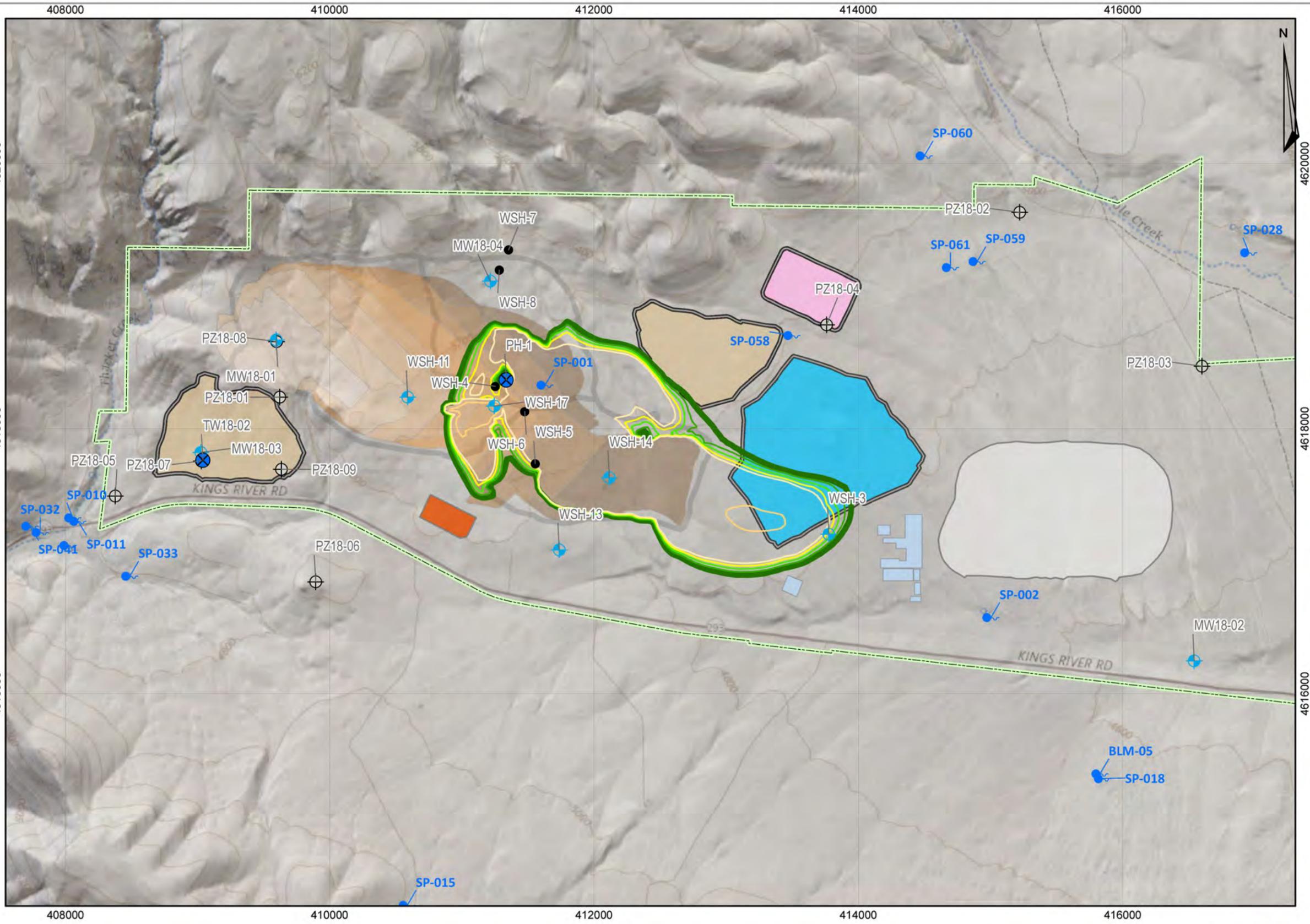


CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.8	

Profile I NRVs  
Sb = 0.006 mg/l



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**300-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02

Thacker Pass Project Permit Boundary

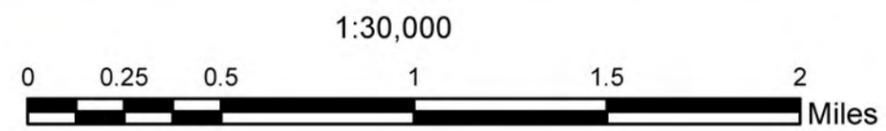
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 300-yr Post-Closure (Proposed Action)**

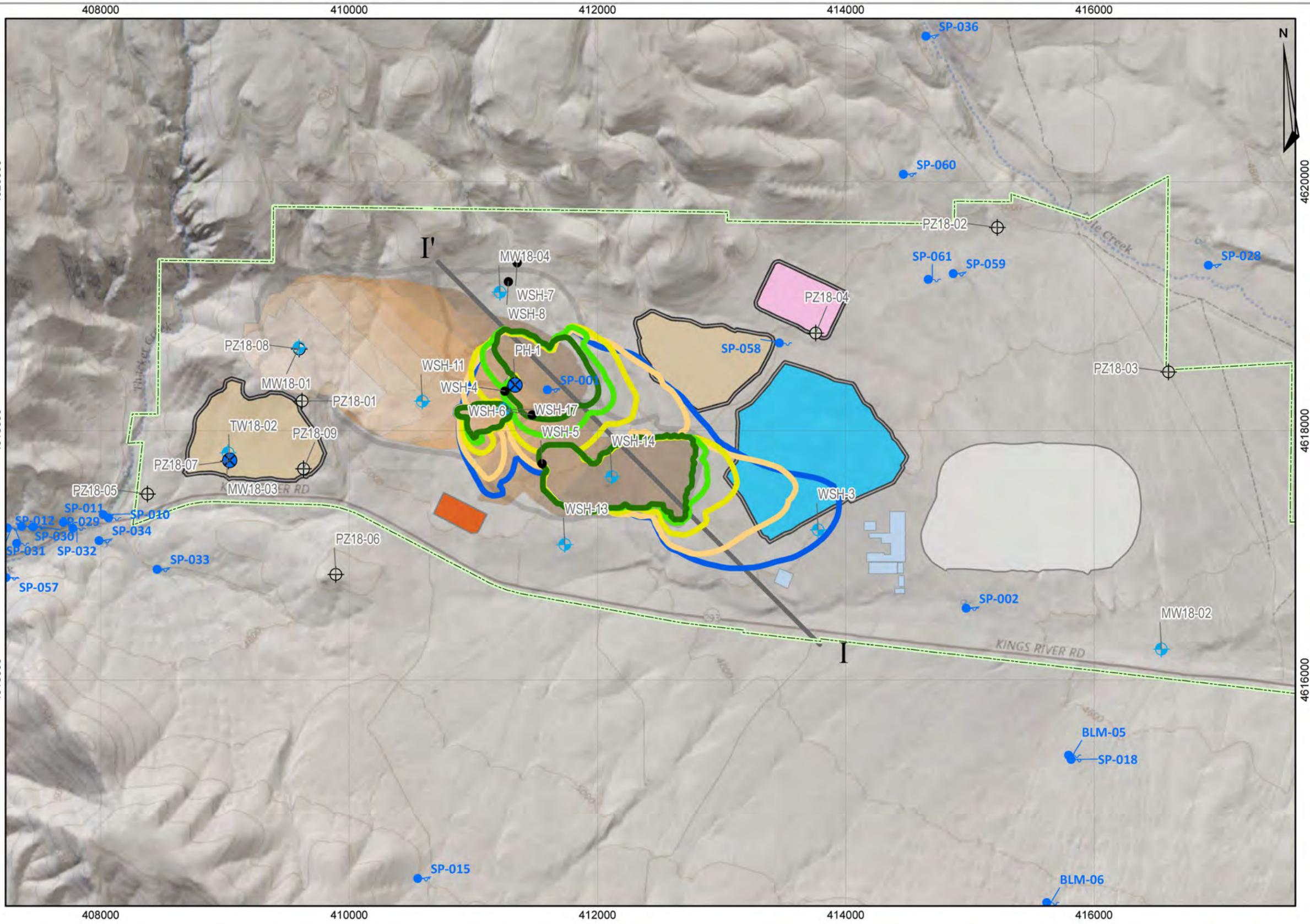
**PITEAU ASSOCIATES**  
 GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	BA	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.9	

Profile I NRVs  
 Sb = 0.006 mg/l



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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**0.006 mg/L Sb Isopleths**

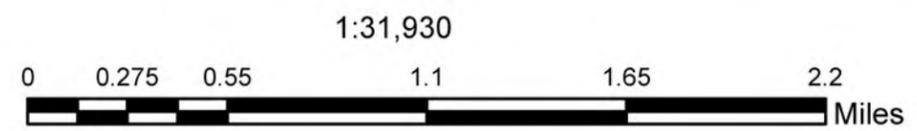
- 25 years
- 50 years
- 100 years
- 200 years
- 300 years

- Thacker Pass Project Permit Boundary
- Cross section
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Antimony 0.006 mg/L isopleth through time (proposed action)**

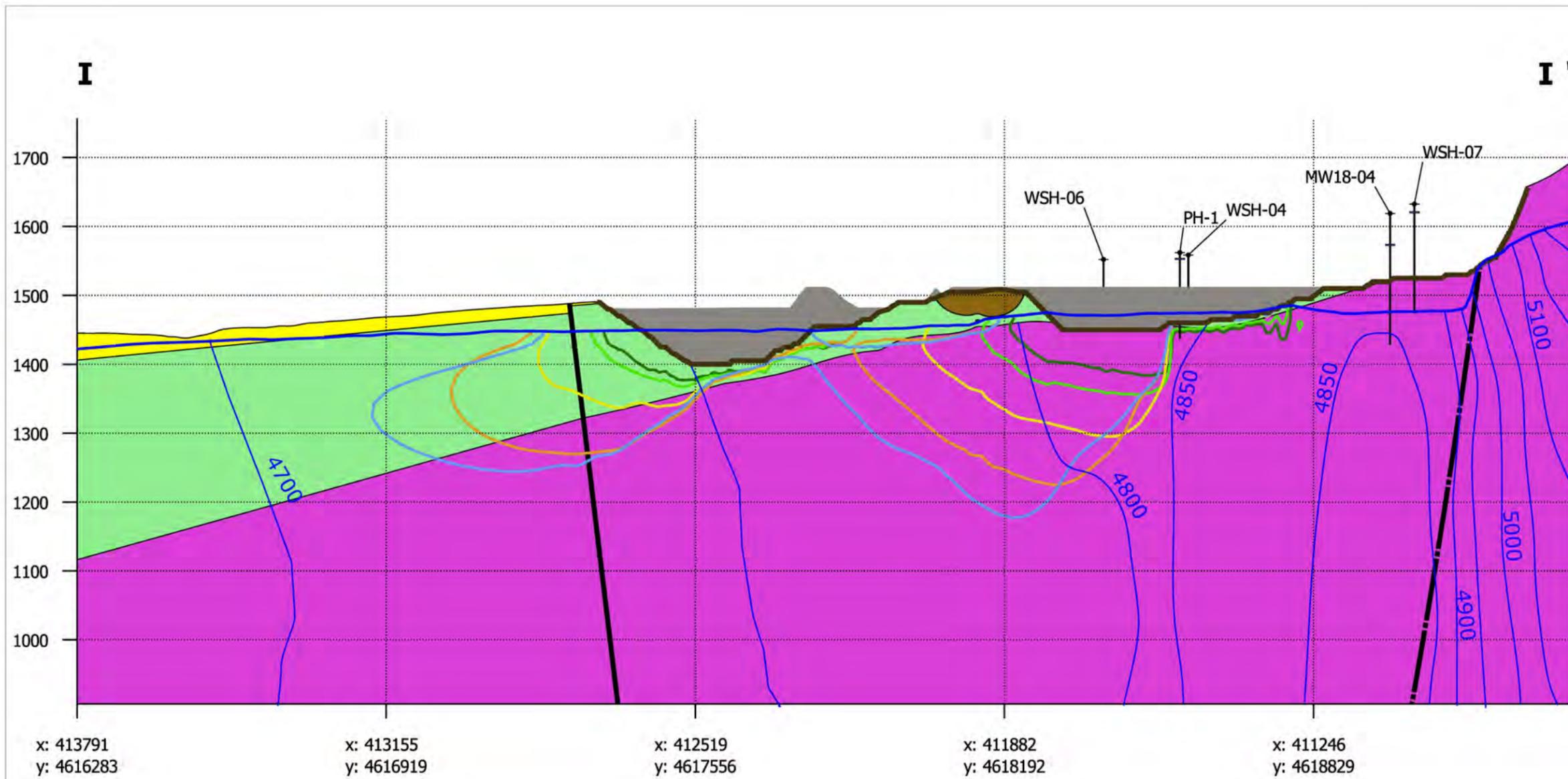
**PITEAU ASSOCIATES**  
 GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.10	



Profile I NRVs  
 Sb = 0.006 mg/l

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**Geology**

- Alluvium
- Basalt
- Sediments
- Tuff of Long Ridge

Fault C  
 Fault N

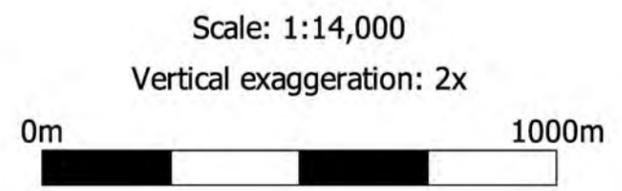
2065 Backfill  
 Pit Surface  
 Simulated Recovered Water Level  
 Groundwater contours (50 ft)

**Sb 0.006 mg/L Isopleths:**

- 25 years
- 50 years
- 100 years
- 200 years
- 300 years

Profile I NRV:  
Sb = 0.006 mg/L

**Antimony 0.006 mg/L isopleth through time (Backfilled pit proposed action)**

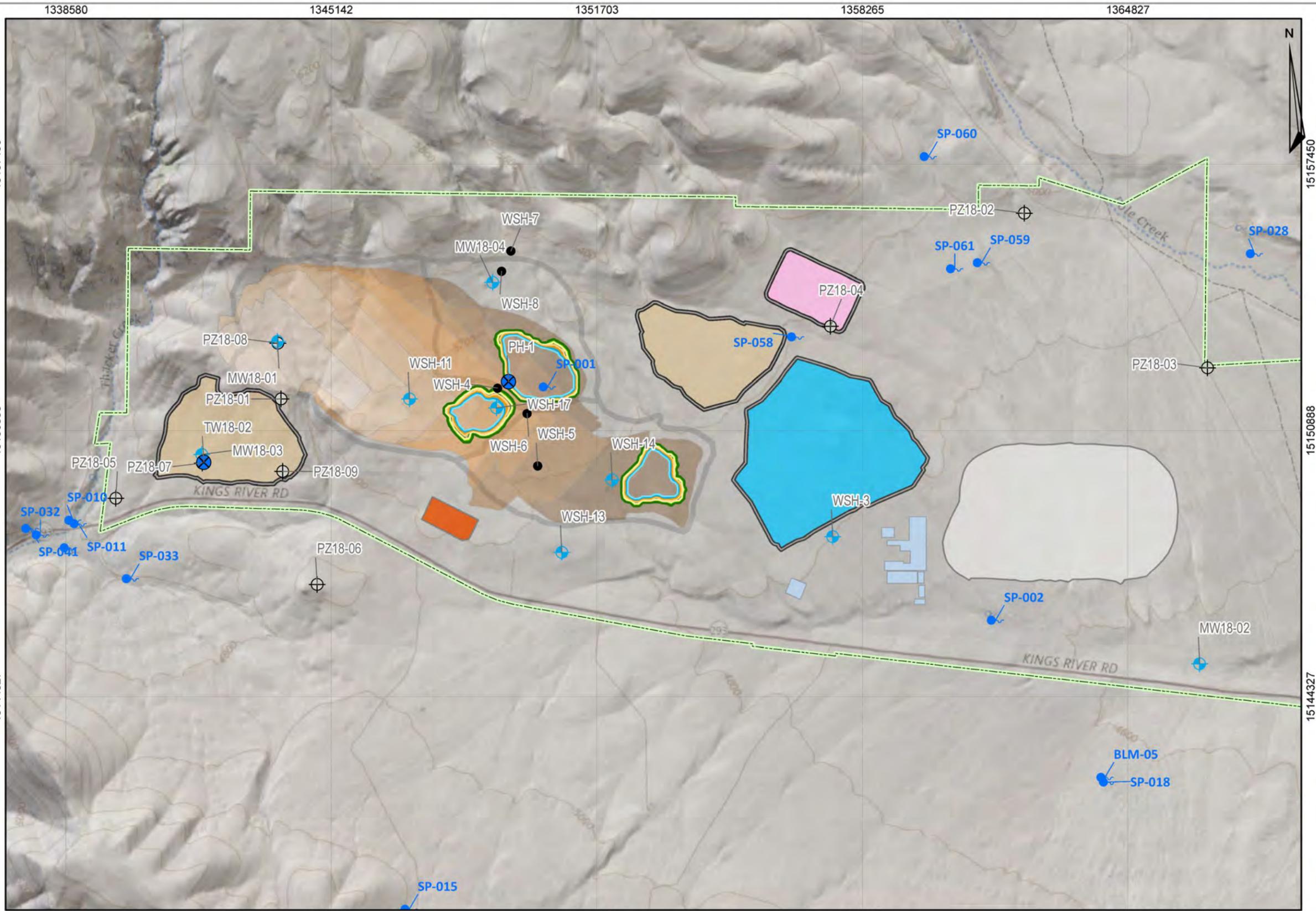


**Location**

B: 413791, 4616283  
B': 410715, 4619359

**PITEAU ASSOCIATES**  
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT: Lithium Nevada  
PROJECT: 3898  
JOB: Thacker Pass EIS  
DRAWN: BA      CHECKED: TC  
DATE: May 2020  
FIGURE: 6.11



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- ⋈ Springs

**25-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03
- 0.04
- 0.05

- Thacker Pass Project Permit Boundary
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 25-yr Post-Closure (Open pit alternative)**

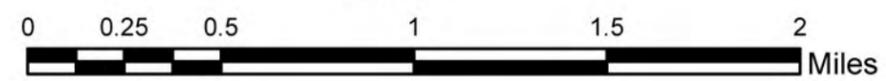
**PITEAU ASSOCIATES**  
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC		
PROJECT:	Thacker Pass Project EIS		
JOB:	3898		
DRAWN:	LH	CHECKED:	TC
DATE:	May 2020		
FIGURE:	6.12		

1338580 1345142 1351703 1358265 1364827

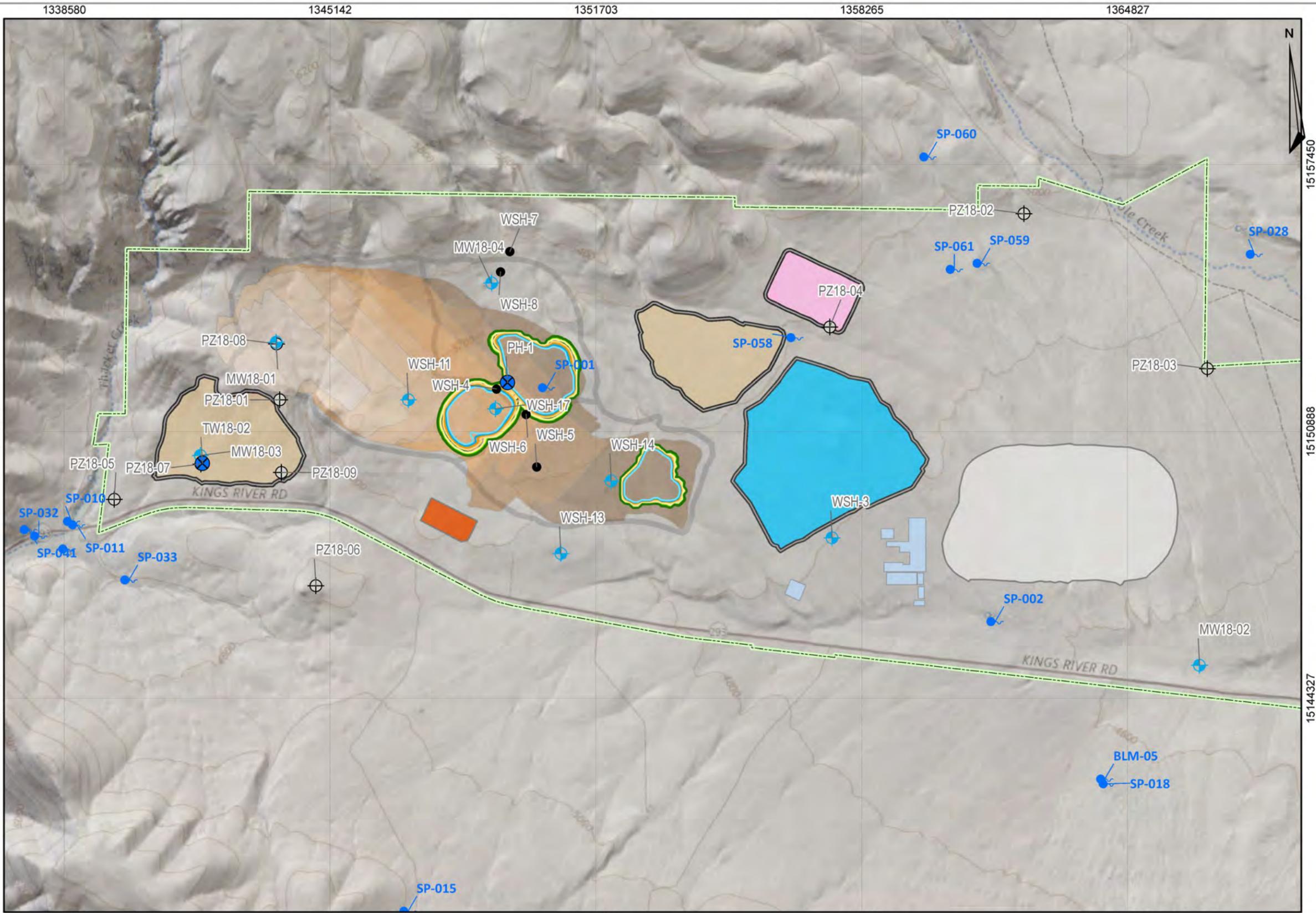
1338580 1345142 1351703 1358265 1364827

1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**50-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03
- 0.04
- 0.05

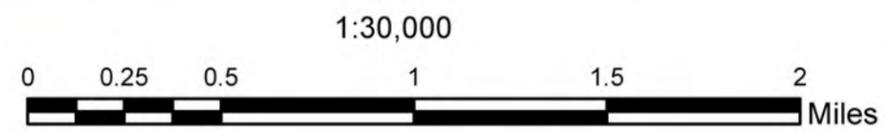
- Thacker Pass Project Permit Boundary
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 50-yr Post-Closure (Open pit alternative)**

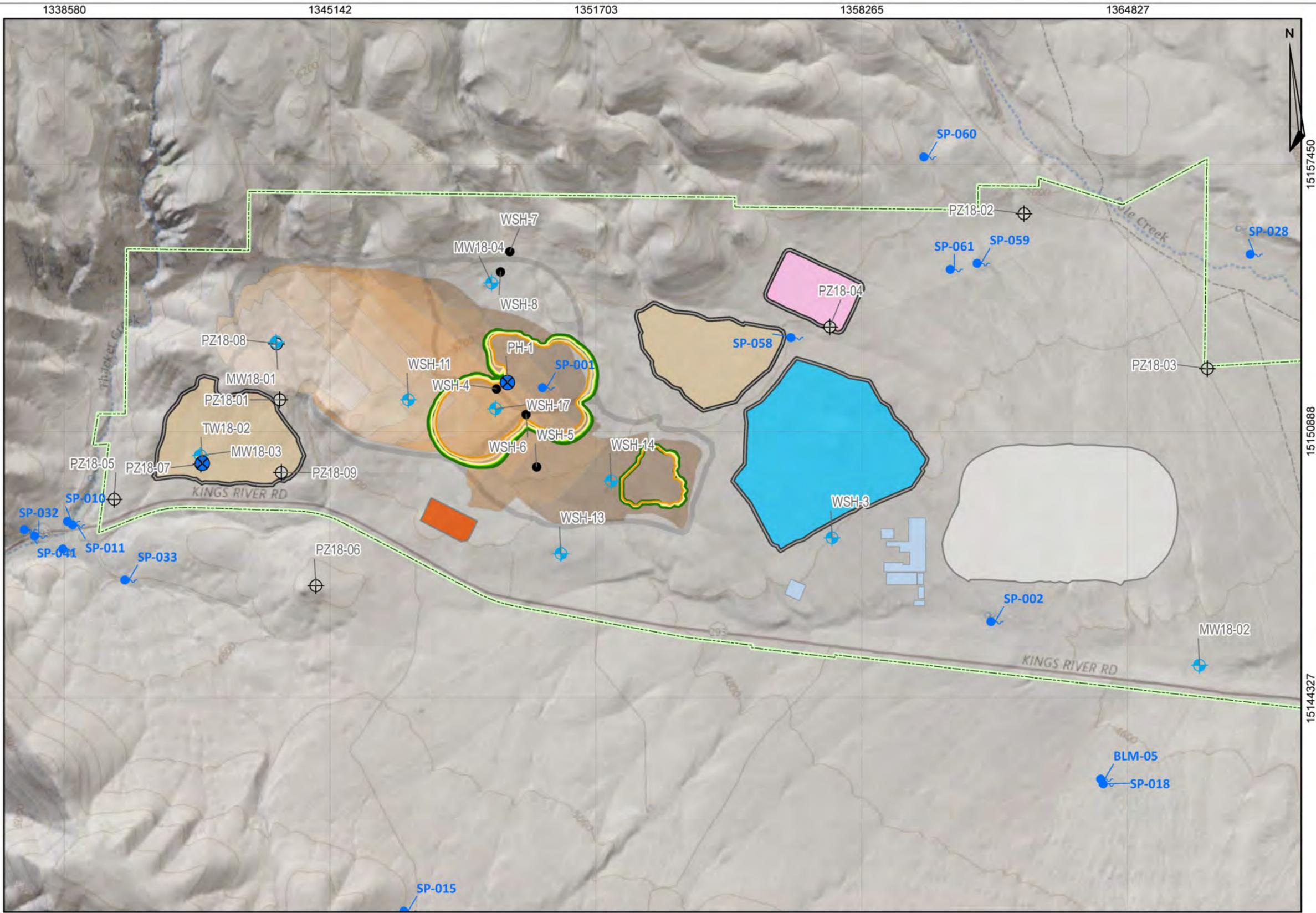
**PITEAU ASSOCIATES**  
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.13	

Profile I NRVs  
Sb = 0.006 mg/l



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**100-yr Sb Isopleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03

Thacker Pass Project Permit Boundary

- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isopleths at 100-yr PostClosure (Open pit Alternative)**

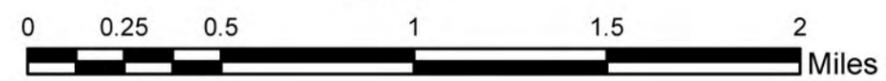
**PITEAU ASSOCIATES**  
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.14	

1338580 1345142 1351703 1358265 1364827

1338580 1345142 1351703 1358265 1364827

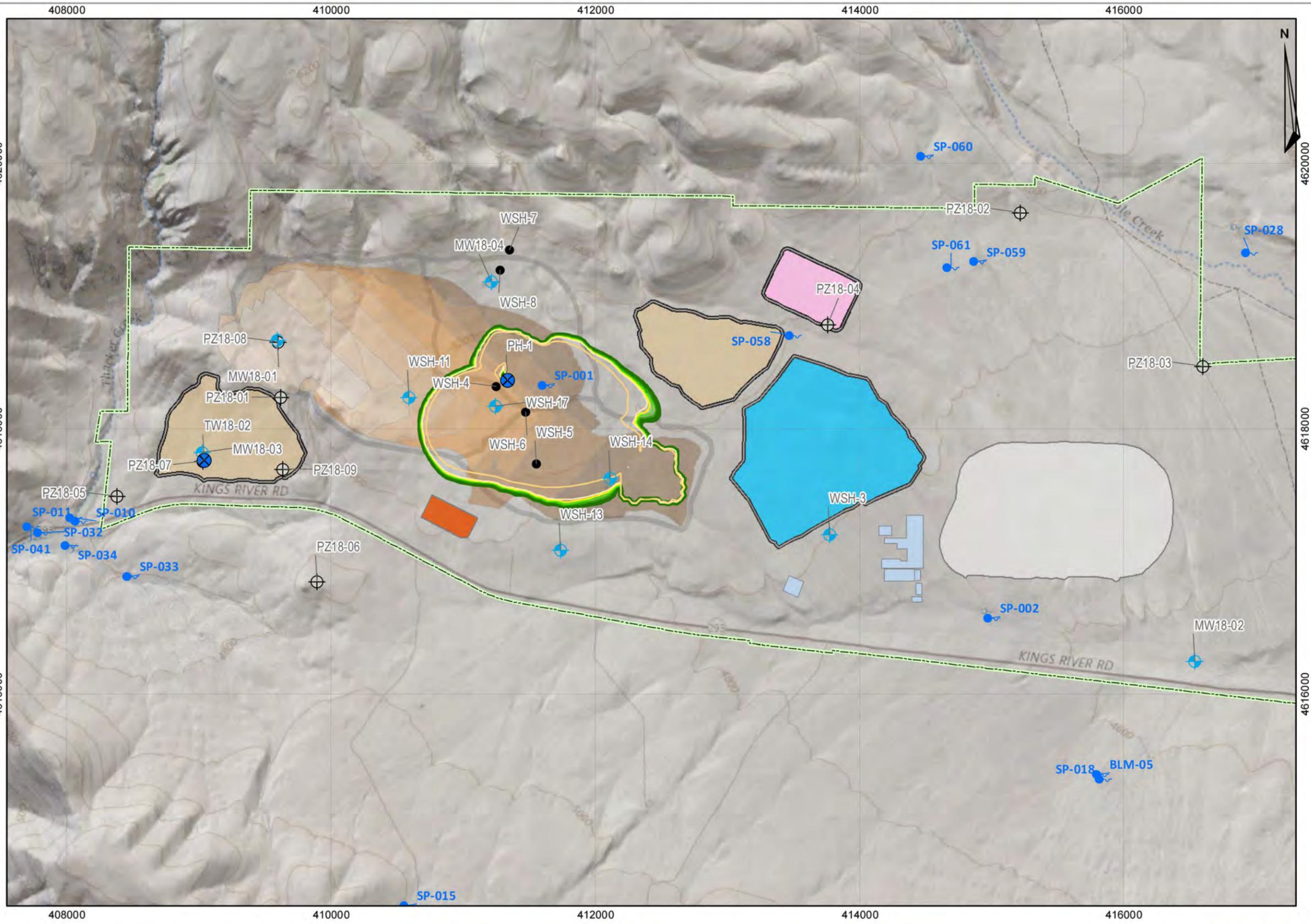
1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**300-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02

Thacker Pass Project Permit Boundary

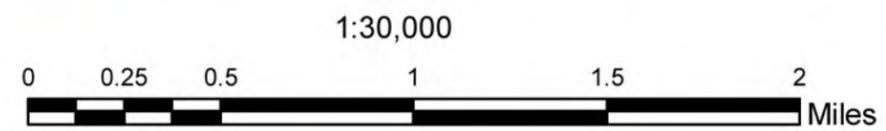
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 300-yr Post-Closure (Open pit alternative)**



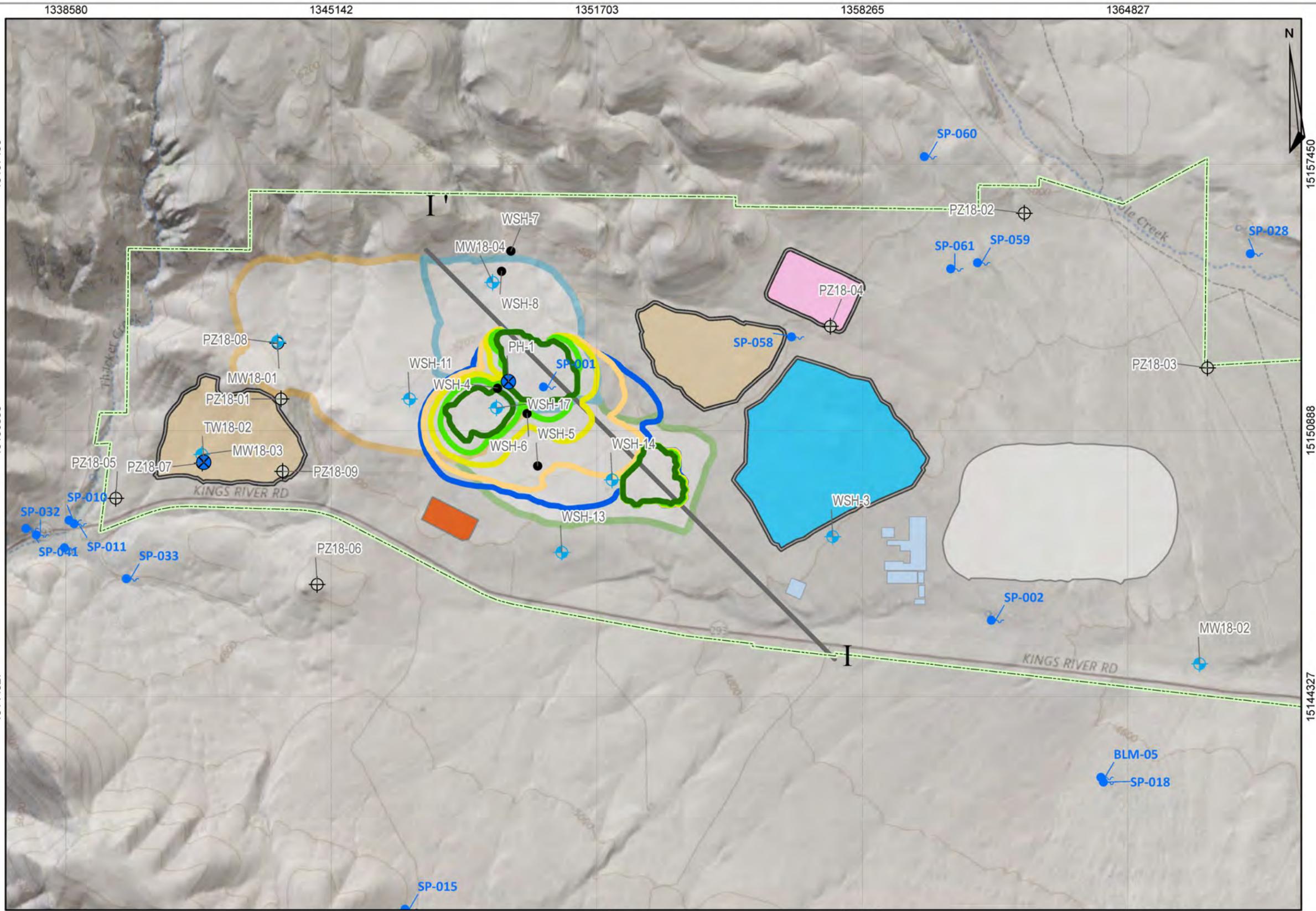
CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	BA	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.16	

Profile I NRVs  
Sb = 0.006 mg/l



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.

H:\Project\3898\GIS\Kings Valley EIS\mxd\Modelling Report\Fate and Transport\OpenPit\Figure 6.17 Antimony 0.006 iso through time open pit.mxd



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**0.006 mg/L Sb isopleths**

- 25 years
- 50 years
- 100 years
- 200 years
- 300 years

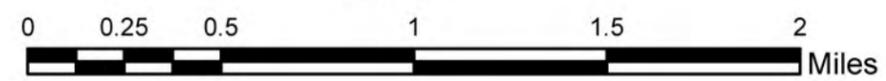
- Thacker Pass Project Permit Boundary
- Cross section
- N Sub Pit
- NW Sub Pit
- South Sub Pit
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Antimony 0.006 mg/L isopleth through time (Open Pit Alternative)**



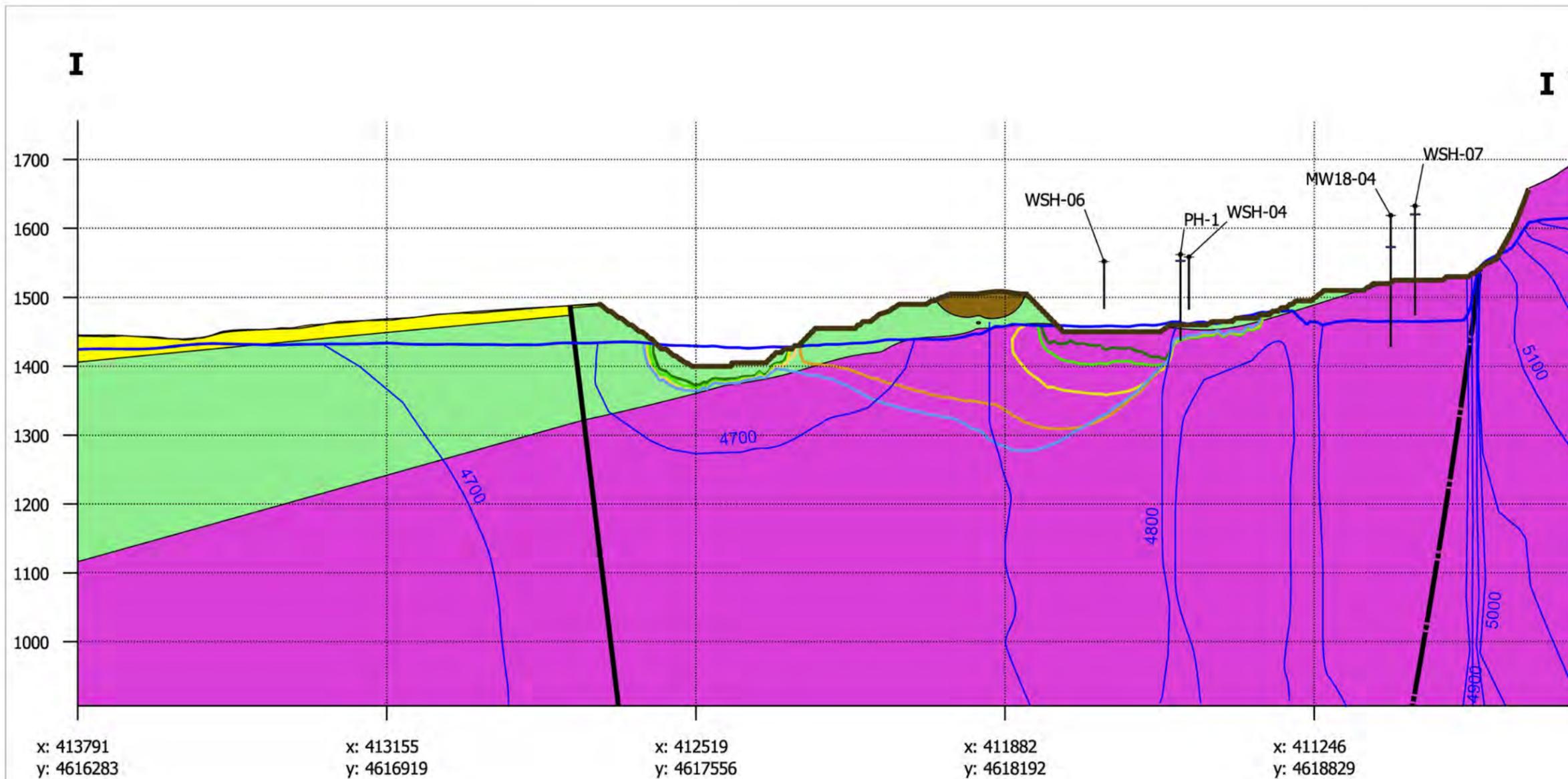
CLIENT:	LNC		
PROJECT:	Thacker Pass Project EIS		
JOB:	3898		
DRAWN:	BA	CHECKED:	TC
DATE:	May 2020		
FIGURE:	6.17		

1:30,000



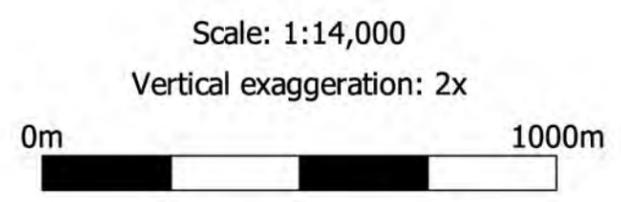
Profile I NRVs  
Sb = 0.006 mg/l

PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.



- Geology**
- Alluvium
  - Basalt
  - Sediments
  - Tuff of Long Ridge
- Faults**
- Fault C
  - Fault N
- Water Level and Contours**
- Pit Surface
  - Simulated Recovered Water Level
  - Groundwater contours (50 ft)
- Sb 0.006 mg/L Isopleths:**
- 25 years
  - 50 years
  - 100 years
  - 200 years
  - 300 years
- Profile I NRV:  
Sb = 0.006 mg/L

**Antimony 0.006 mg/L isopleth through time cross section (Open pit alternative)**

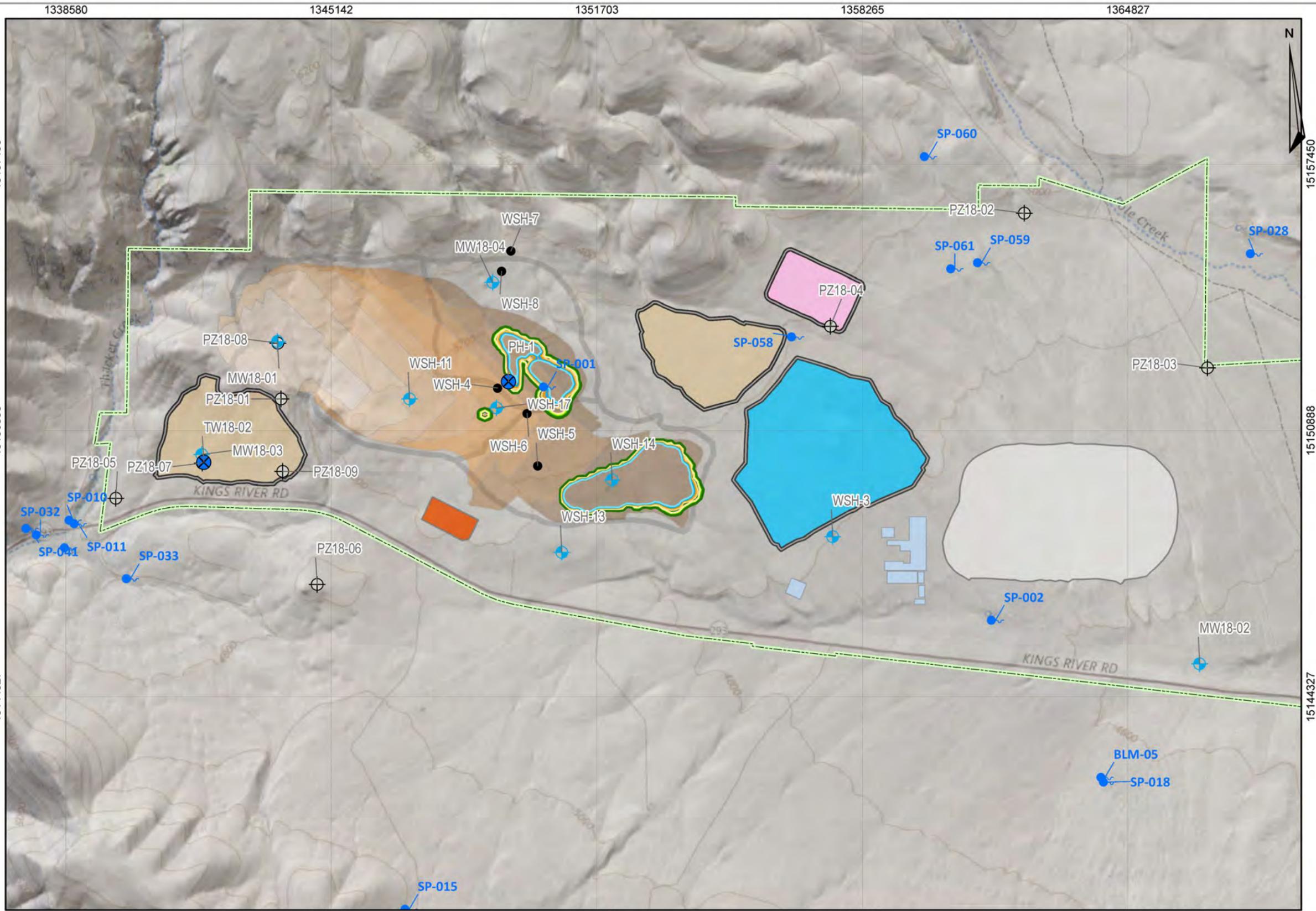


**Location**

B: 413791, 4616283  
B': 410715, 4619359

**PITEAU ASSOCIATES**  
GEO TECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT: Lithium Nevada  
PROJECT: 3898  
JOB: Thacker Pass EIS  
DRAWN: BA      CHECKED: TC  
DATE: May 2020  
FIGURE: 6.18



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**25-yr Sb Isopleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03
- 0.04
- 0.05

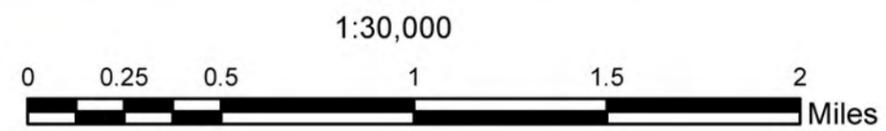
--- Thacker Pass Project Permit Boundary

- ▭ Sub Pits
- ▭ Mine Facilities
- ▭ Process Plant
- ▭ Tailings Facility
- ▭ Gangue Stockpile
- ▭ WRFs
- ▭ Growth Media Stockpile

**Maximum Sb Concentration Isopleths at 25-yr Post-Closure (Partially backfilled south pit alternative)**

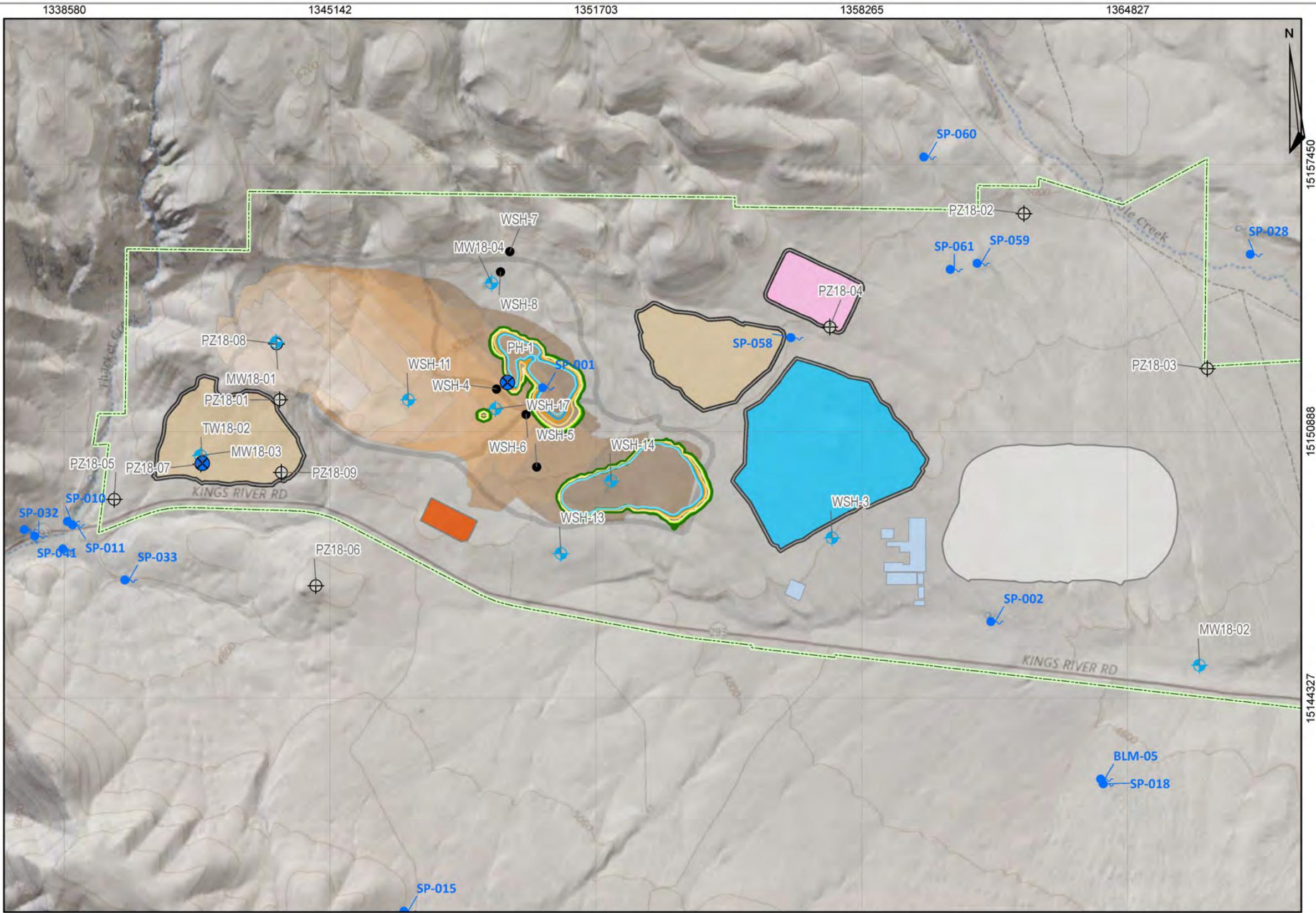
**PITEAU ASSOCIATES**  
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.19	



Profile I NRVs  
Sb = 0.006 mg/l

PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**50-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03
- 0.04
- 0.05

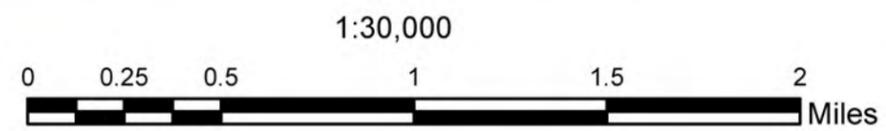
- Thacker Pass Project Permit Boundary
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gange Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 50-yr Post-Closure (Partially backfilled south pit alternative)**

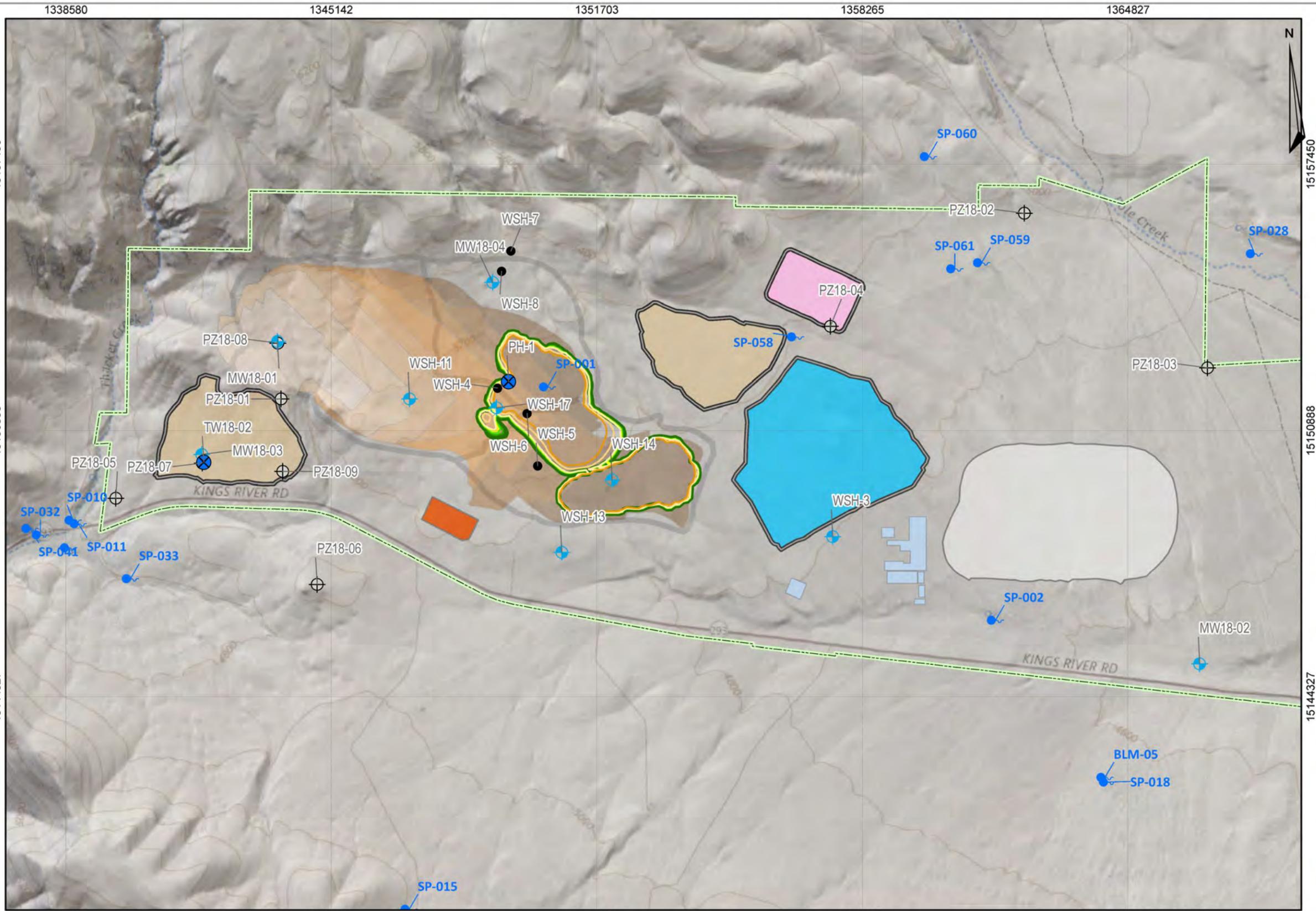


CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.20	

Profile I NRVs  
Sb = 0.006 mg/l



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH PITEAU ASSOCIATES ENGINEERING LTD. HAS NOT ENTERED INTO A CONTRACT.



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**100-yr Sb Isoleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02
- 0.03

Thacker Pass Project Permit Boundary

- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

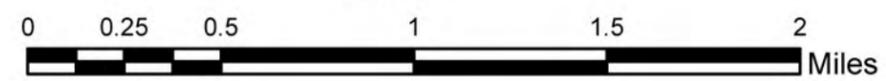
**Maximum Sb Concentration Isoleths at 100-yr Post-Closure (Partially backfilled south sub-pit alternative)**



CLIENT:	LNC		
PROJECT:	Thacker Pass Project EIS		
JOB:	3898		
DRAWN:	LH	CHECKED:	TC
DATE:	May 2020		
FIGURE:	6.21		

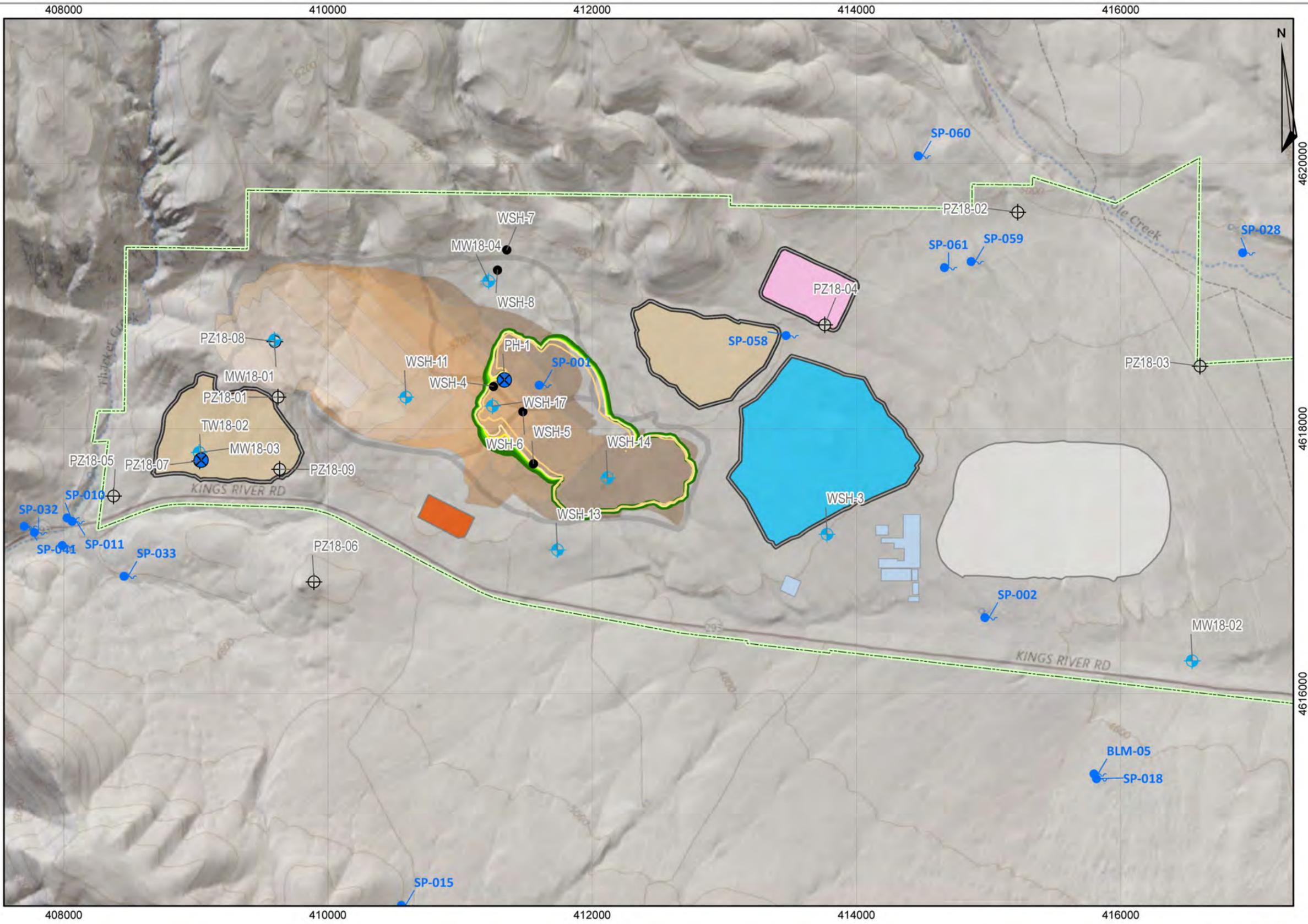
1338580      1345142      1351703      1358265      1364827

1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**200-yr Sb Isopleths (mg/l)**

- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02

- Thacker Pass Project Permit Boundary
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

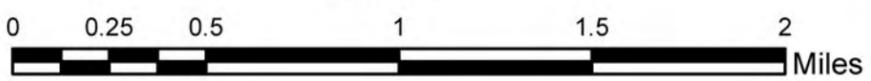
**Maximum Sb Concentration Isopleths at 200-yr Post-Closure (Partially backfilled south sub-pit alternative)**

**PITEAU ASSOCIATES**  
 GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	LH	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.22	

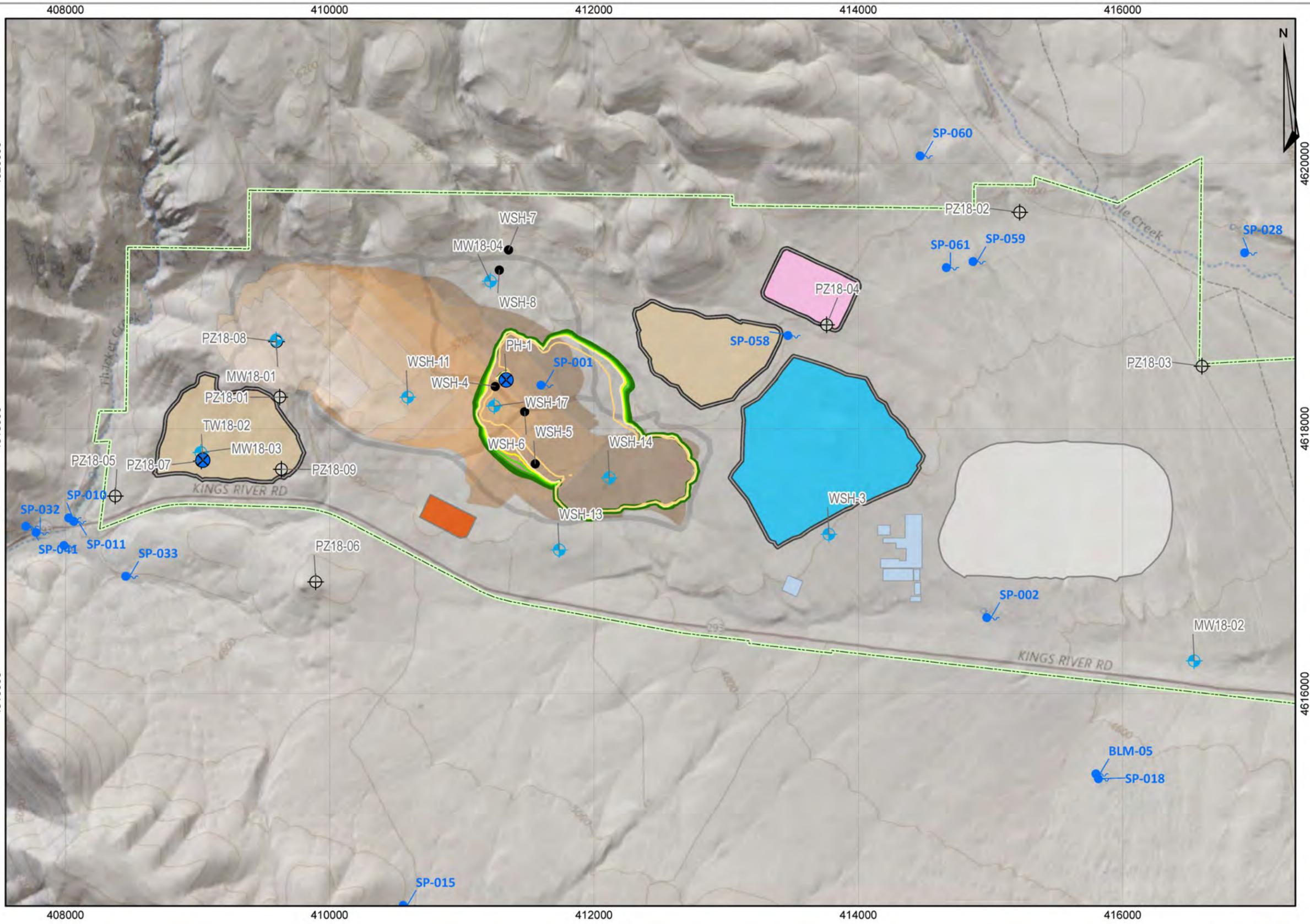
408000 410000 412000 414000 416000

1:30,000



Profile I NRVs  
 Sb = 0.006 mg/l

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**300-yr Sb Isoleths (mg/l)**

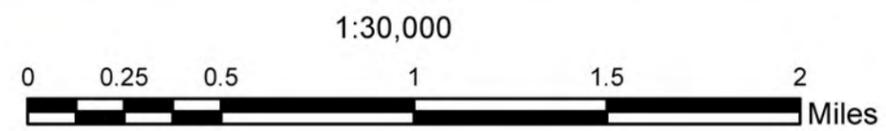
- 0.006
- 0.007
- 0.008
- 0.009
- 0.01
- 0.02

- Thacker Pass Project Permit Boundary
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Maximum Sb Concentration Isoleths at 300-yr Post-Closure (Partially backfilled south sub-pit alternative)**

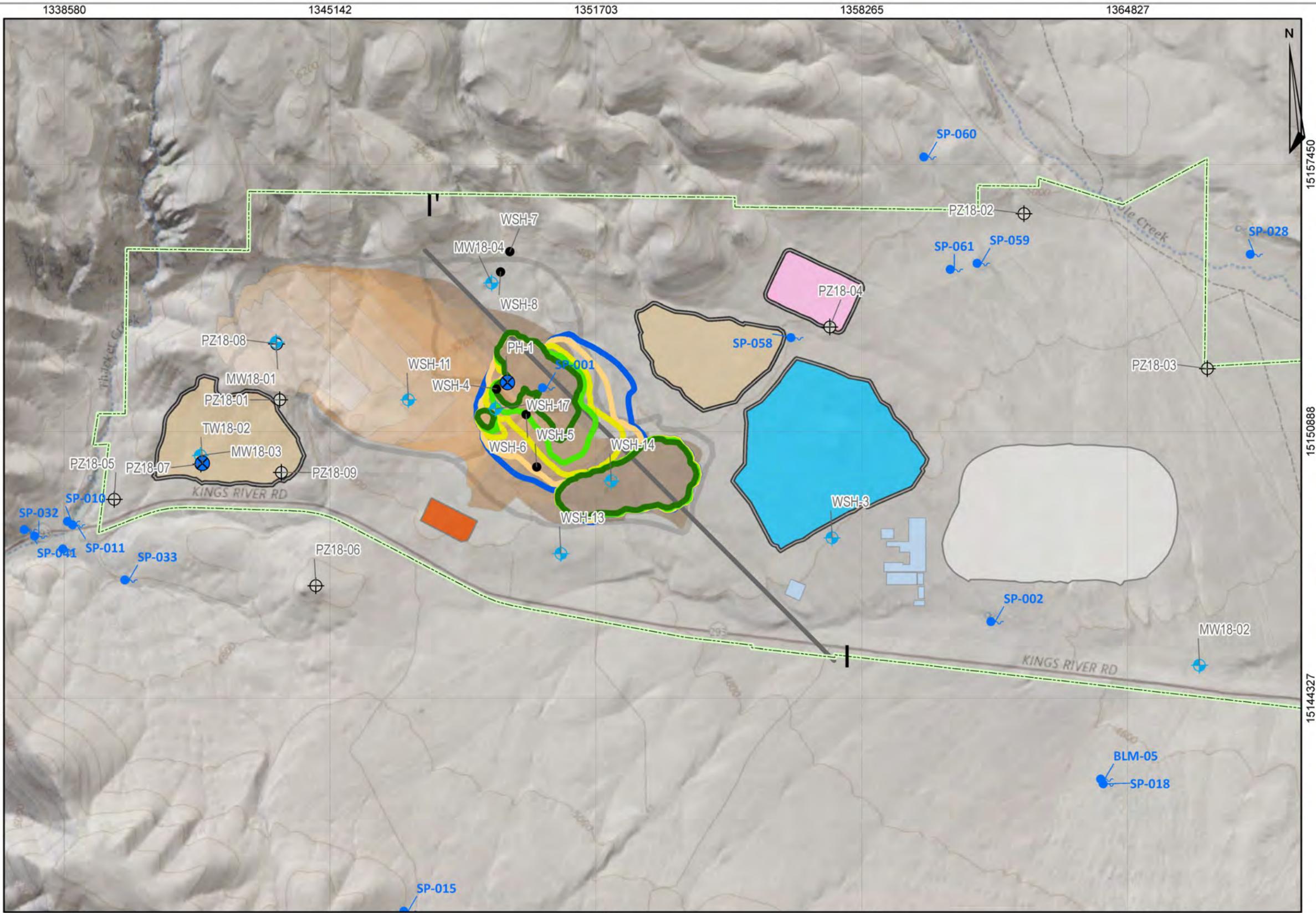
**PITEAU ASSOCIATES**  
 GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT:	LNC		
PROJECT:	Thacker Pass Project EIS		
JOB:	3898		
DRAWN:	BA	CHECKED:	TC
DATE:	May 2020		
FIGURE:	6.23		



Profile I NRVs  
 Sb = 0.006 mg/l

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

25 years  
 50 years  
 100 years  
 200 years  
 300 years

- Thacker Pass Project Permit Boundary
- Cross section
- Sub Pits
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile

**Antimony 0.006 mg/L isopleth through time (Partially Backfilled South Sub-pit Alternative)**

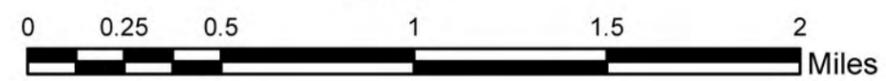


CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	BA	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.24	

1338580 1345142 1351703 1358265 1364827

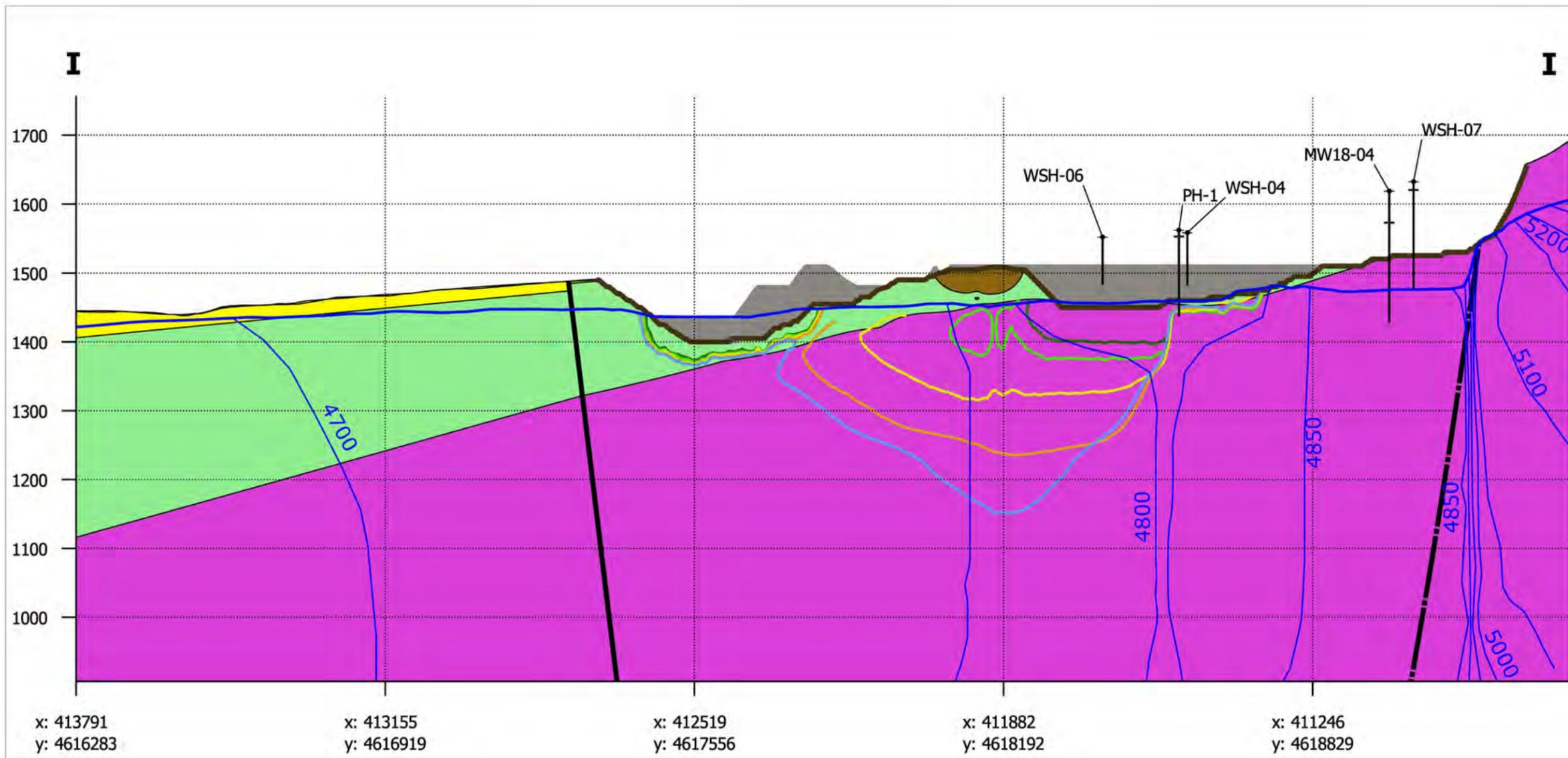
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Profile I NRVs  
Sb = 0.006 mg/l

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**Geology**

- Alluvium
- Basalt
- Sediments
- Tuff of Long Ridge

Fault C  
 Fault N

- 2065 Backfill
- Pit Surface
- Simulated Recovered Water Level
- Groundwater contours (50 ft)

**Sb 0.006 mg/L Isopleths:**

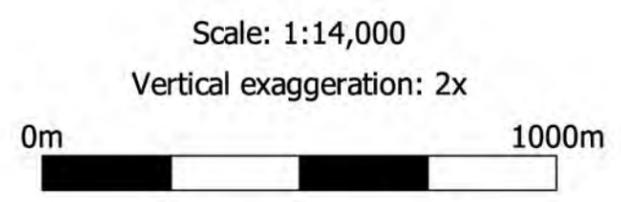
- 25 years
- 50 years
- 100 years
- 200 years
- 300 years

Profile I NRV:  
Sb = 0.006 mg/L

**Antimony 0.006 mg/L  
Isopleth through time  
cross section  
(Partially backfilled south  
sub-pit alternative)**

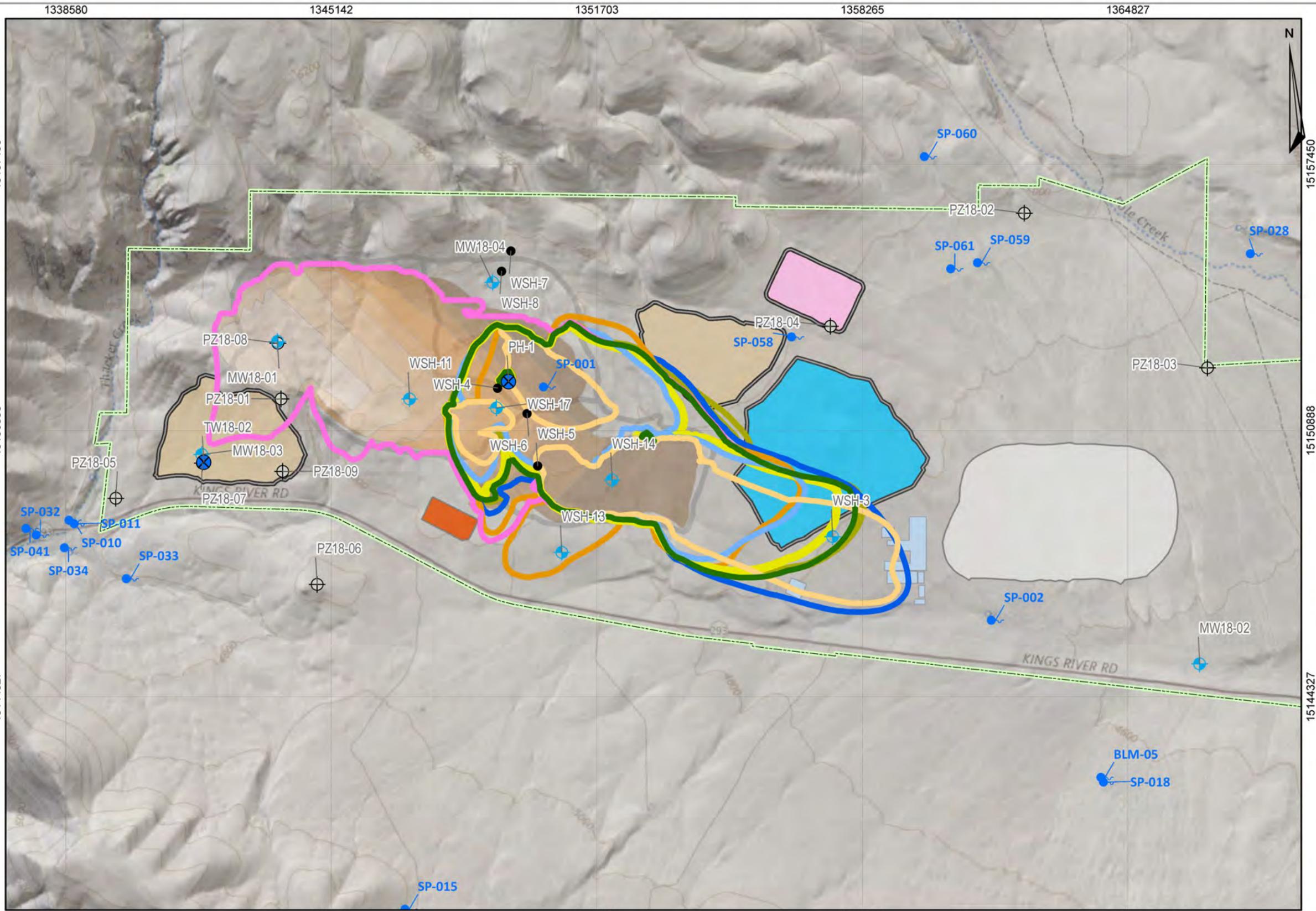
**PITEAU ASSOCIATES**  
GEOTECHNICAL AND WATER MANAGEMENT CONSULTANTS

CLIENT: Lithium Nevada  
 PROJECT: 3898  
 JOB: Thacker Pass EIS  
 DRAWN: BA      CHECKED: TC  
 DATE: May 2020  
 FIGURE: 6.25



**Location**

B: 413791, 4616283  
 B': 410715, 4619359



**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**0.006 mg/L Isopleths**

- Base Case
- Backfill Infiltration
- High K
- High Porosity
- Isotropic dispersion
- Low K
- Low Porosity
- No dispersion
- Thacker Pass Project Permit Boundary
- ▭ Sub Pits
- ▭ Mine Facilities
- ▭ Process Plant
- ▭ Tailings Facility
- ▭ Gangue Stockpile
- ▭ WRFs
- ▭ Growth Media Stockpile

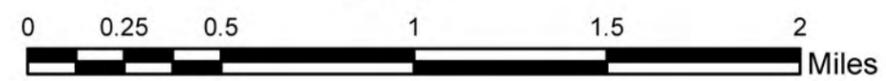
**Fate and Transport sensitivity analysis (Backfilled pit proposed action)**



CLIENT:	LNC	
PROJECT:	Thacker Pass Project EIS	
JOB:	3898	
DRAWN:	BA	CHECKED: TC
DATE:	May 2020	
FIGURE:	6.26	

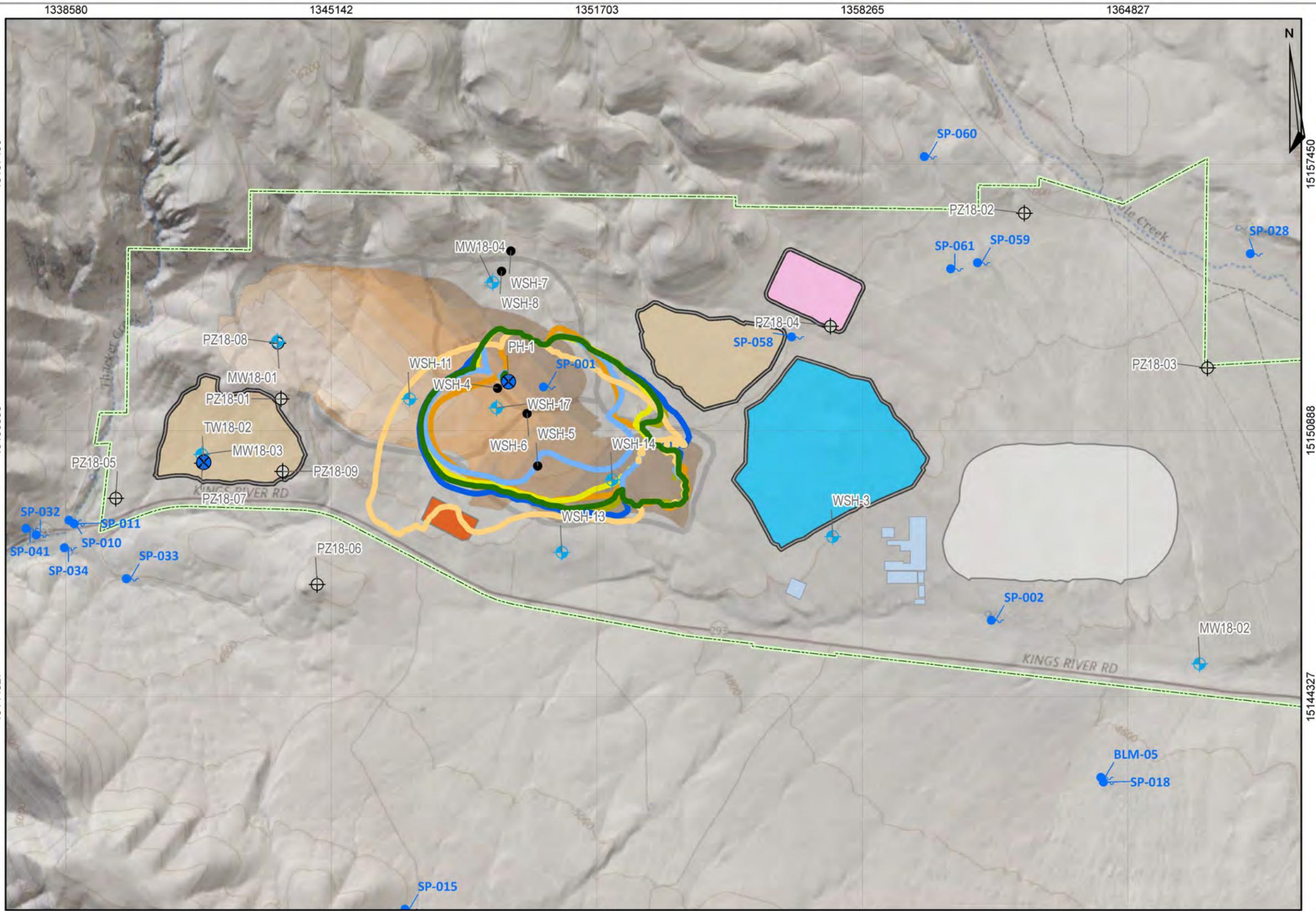
1338580 1345142 1351703 1358265 1364827

1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

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**Wells**

- Abandoned
- ⊕ Monitoring well
- ⊕ Piezometer
- ⊗ Production well
- ⊗ Test pumping well
- Springs

**0.006 mg/L Sb Isopleths**

- Base Case
- High K
- High Porosity
- Isotropic dispersion
- Low K
- Low Porosity
- No dispersion

— Thacker Pass Project Permit Boundary

- ▭ Sub Pits
- ▭ Mine Facilities
- ▭ Process Plant
- ▭ Tailings Facility
- ▭ Gangue Stockpile
- ▭ WRFs
- ▭ Growth Media Stockpile

**Fate and Transport sensitivity analysis (Open pit alternative)**

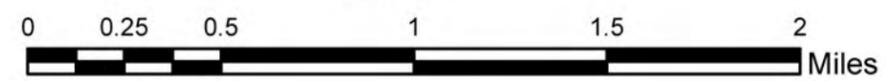


CLIENT:	LNC		
PROJECT:	Thacker Pass Project EIS		
JOB:	3898		
DRAWN:	BA	CHECKED:	TC
DATE:	May 2020		
FIGURE:	6.27		

1338580 1345142 1351703 1358265 1364827

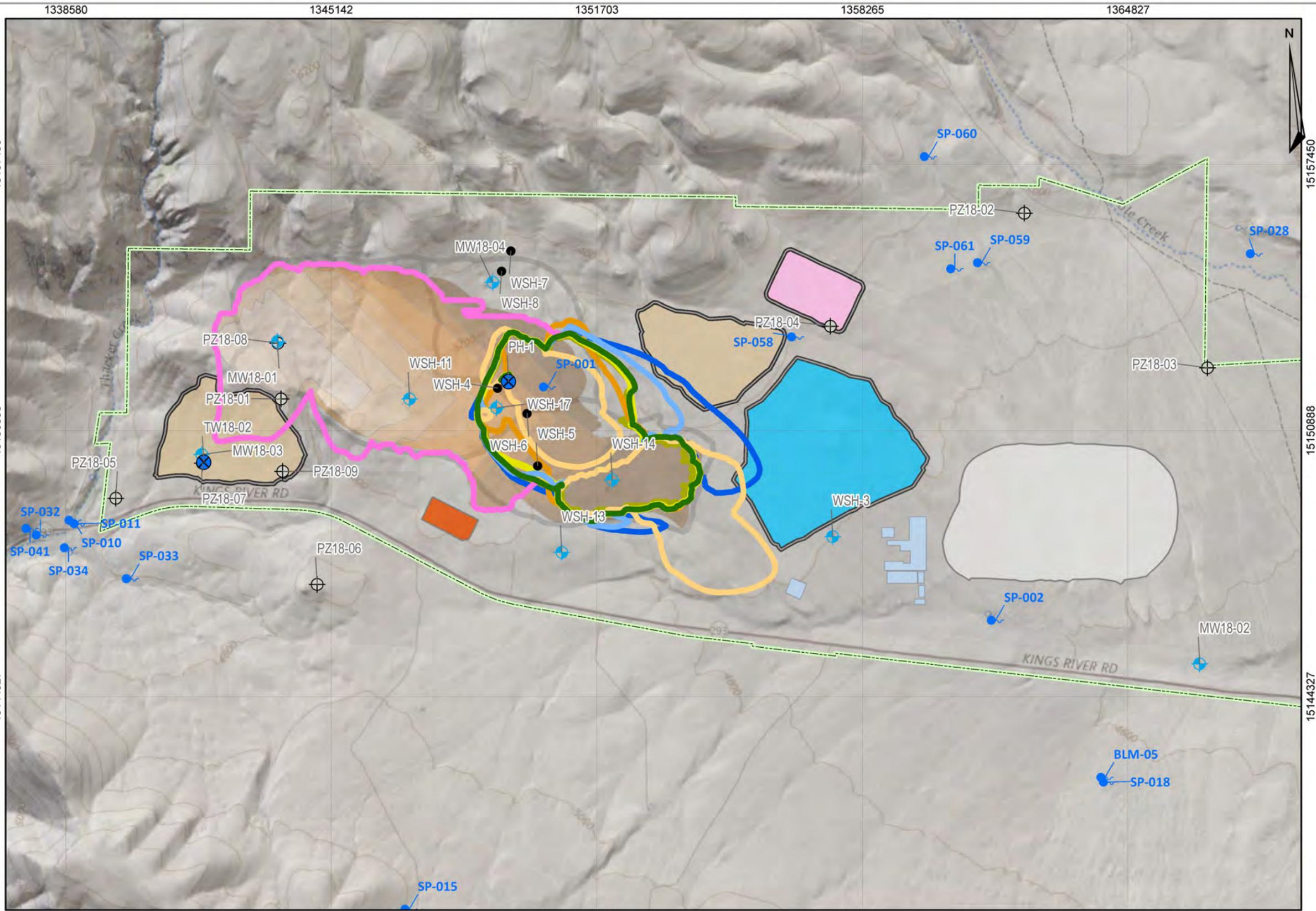
1338580 1345142 1351703 1358265 1364827

1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

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- Wells**
- Abandoned
  - ⊕ Monitoring well
  - ⊕ Piezometer
  - ⊗ Production well
  - ⊗ Test pumping well
  - Springs
- Base Case**
- Infiltration through backfill
  - High K
  - High Porosity
  - Isotropic dispersion
  - Low K
  - Low Porosity
  - No dispersion
- Thacker Pass Project Permit Boundary**
- Sub Pits
  - Mine Facilities
  - Process Plant
  - Tailings Facility
  - Gangue Stockpile
  - WRFs
  - Growth Media Stockpile

**Fate and Transport sensitivity analysis (Partially backfilled south sub-pit alternative)**

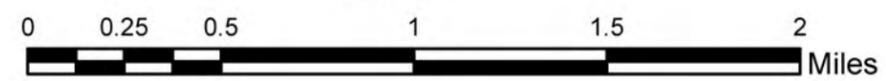


CLIENT:	LNC		
PROJECT:	Thacker Pass Project EIS		
JOB:	3898		
DRAWN:	BA	CHECKED:	TC
DATE:	May 2020		
FIGURE:	6.28		

1338580 1345142 1351703 1358265 1364827

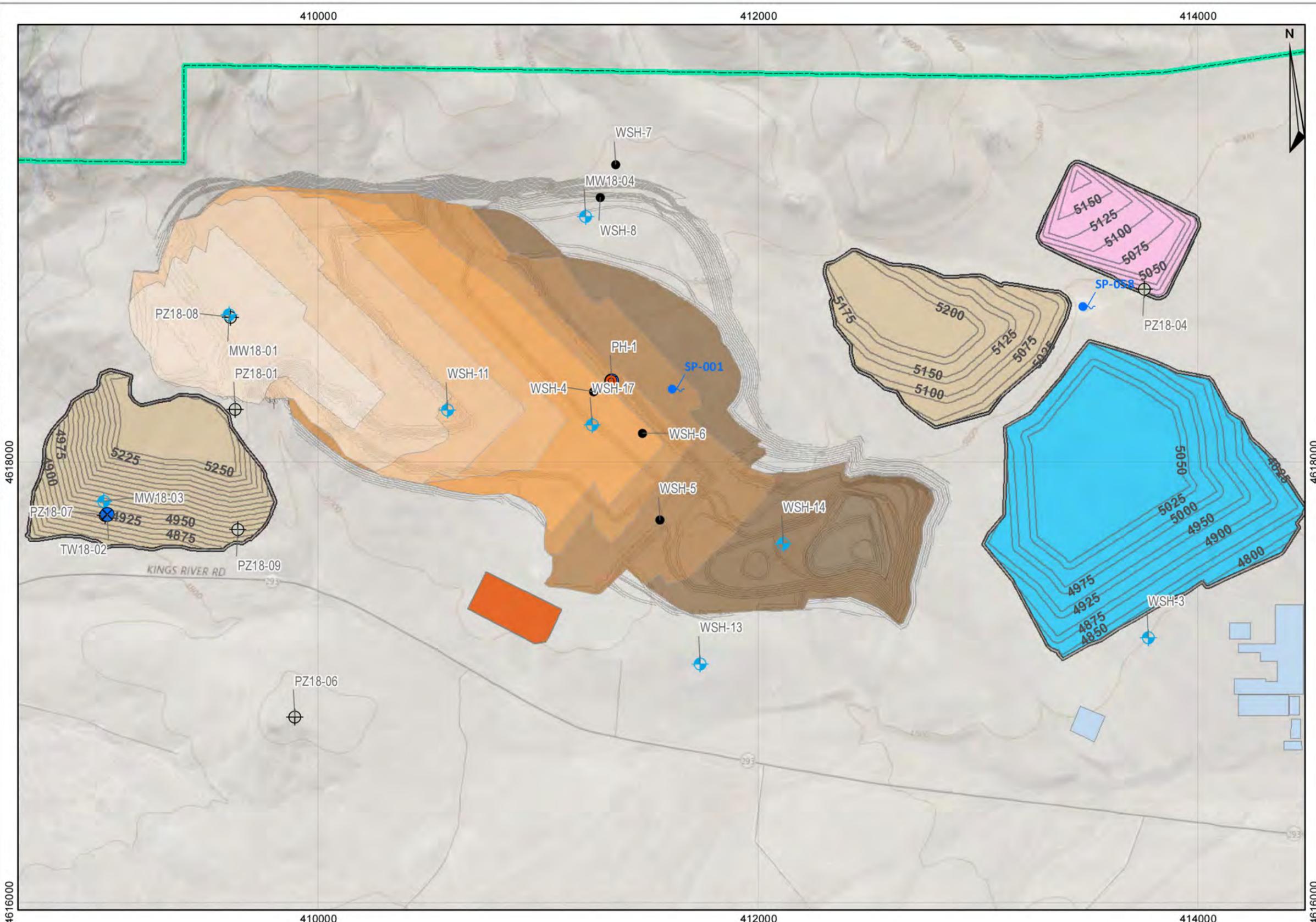
1338580 1345142 1351703 1358265 1364827

1:30,000



Profile I NRVs  
Sb = 0.006 mg/l

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**Wells**

- Abandoned
- ⊕ Monitoring Well
- ⊕ Piezometer
- ⊗ Production Well
- ⊗ Test Pumping Well
- ⋯ Springs

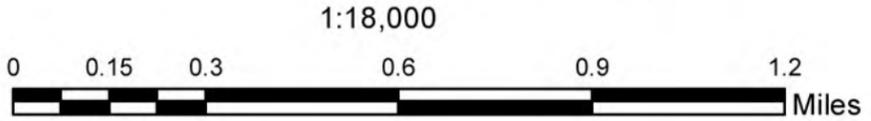
**Layer**

- 2030 Backfill
- 2035 Backfill
- 2040 Backfill
- 2045 Backfill
- 2050 Backfill
- 2055 Backfill
- 2060 Backfill
- 2065 Backfill
- Open\_South\_Pit\_Contours
- Mine Facility Contour (Plan)
- Mine Facilities
- Process Plant
- Tailings Facility
- Gangue Stockpile
- WRFs
- Growth Media Stockpile
- Pit Lakes
- Thacker Pass Project AOI

**Waste Rock and Gangue Stockpile Design Map**



CLIENT:	LNC		
PROJECT:	Thacker Pass Hydrologic Baseline		
JOB:	3898		
DRAWN:	BA	CHECKED:	TC
DATE:	May 2020		
FIGURE:	7.1		



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