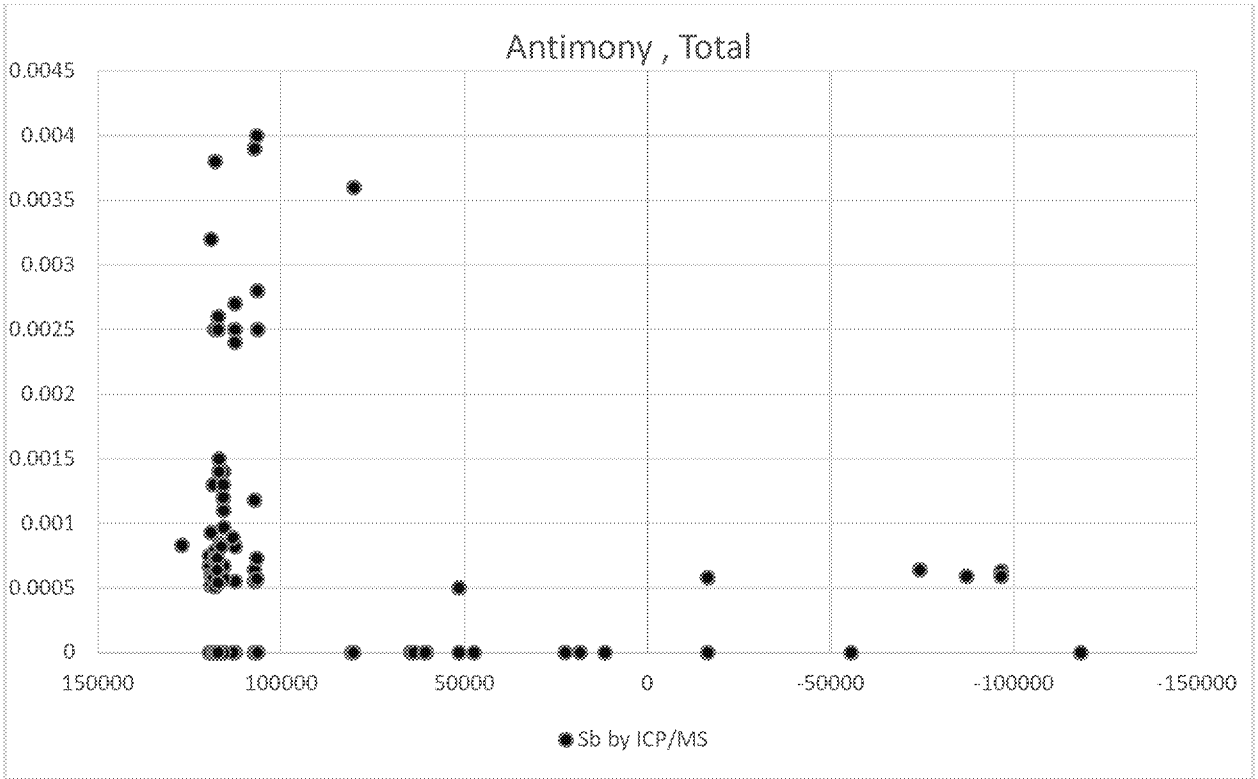
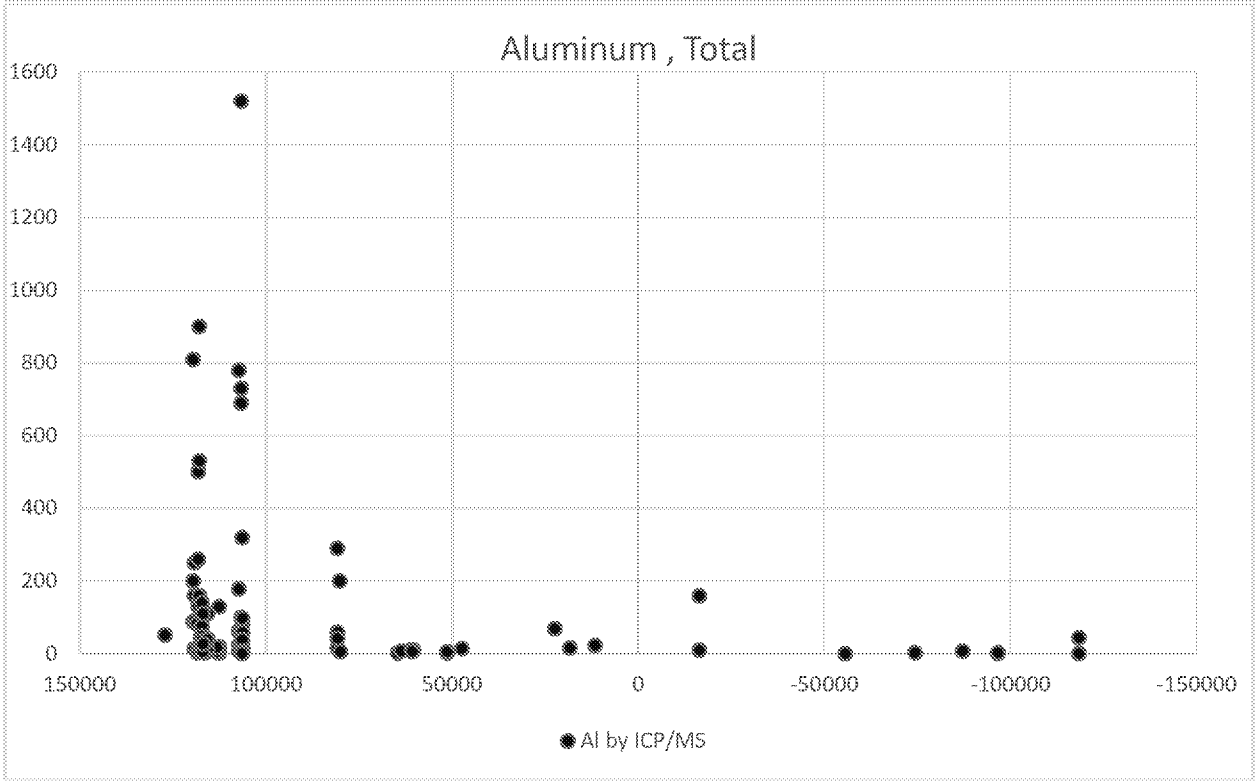
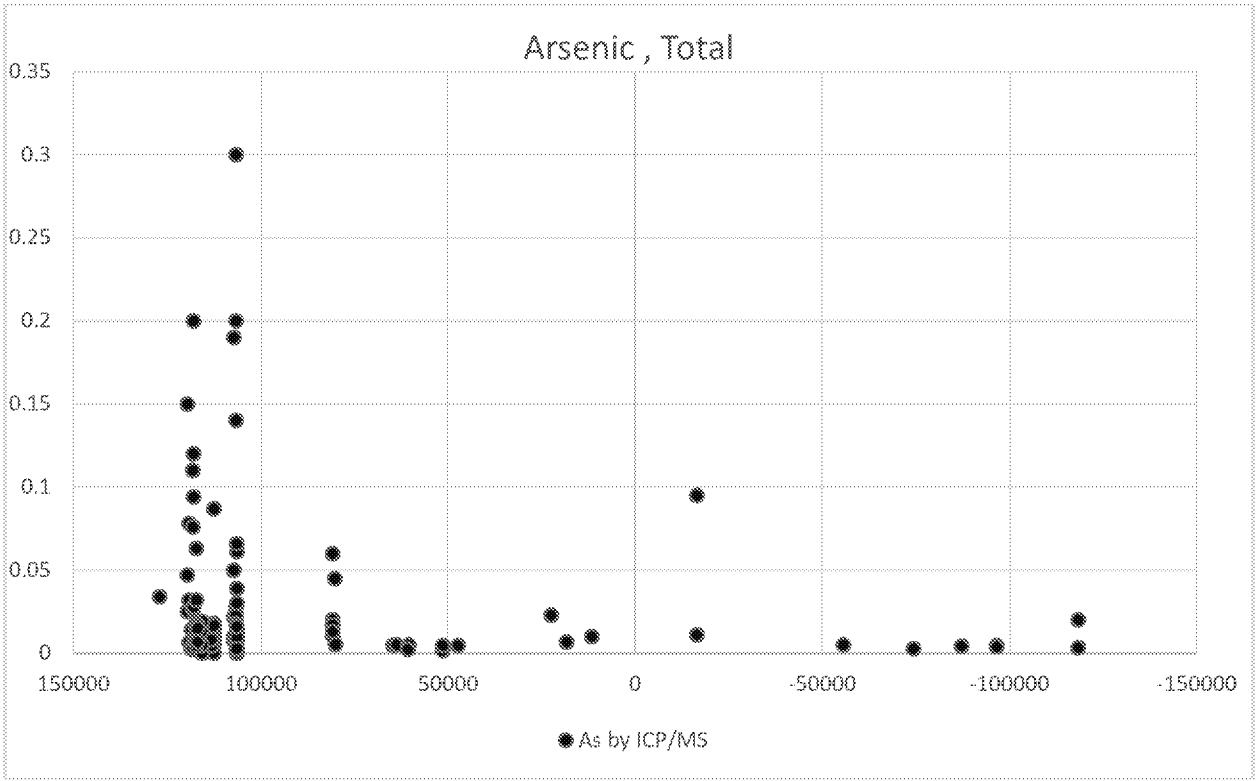
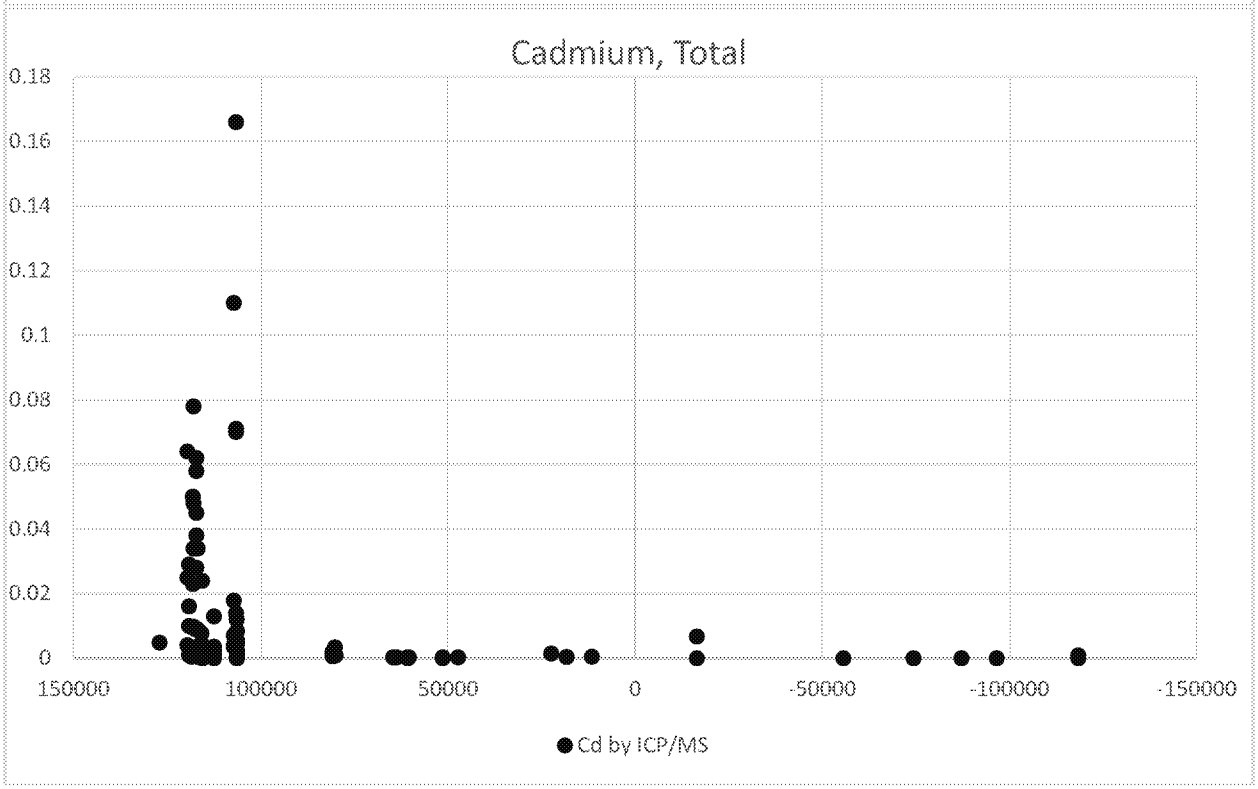
Total Metals

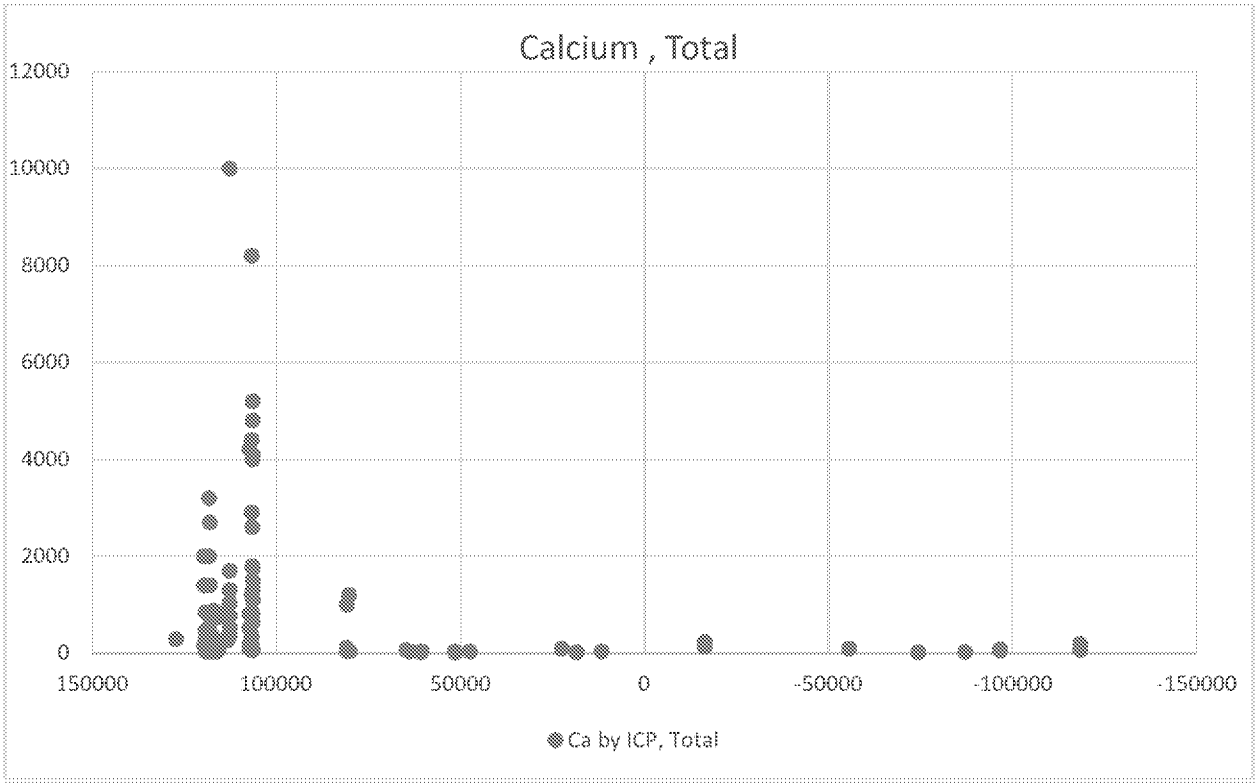
Presented in milligrams per liter, includes Drainages 1, 2, 3, 4a, 4b, Santa Cruz River. Distance 0 refers to the confluence of the Santa Cruz River. Negative distances refer to the distance downstream from the confluence in the Santa Cruz River.

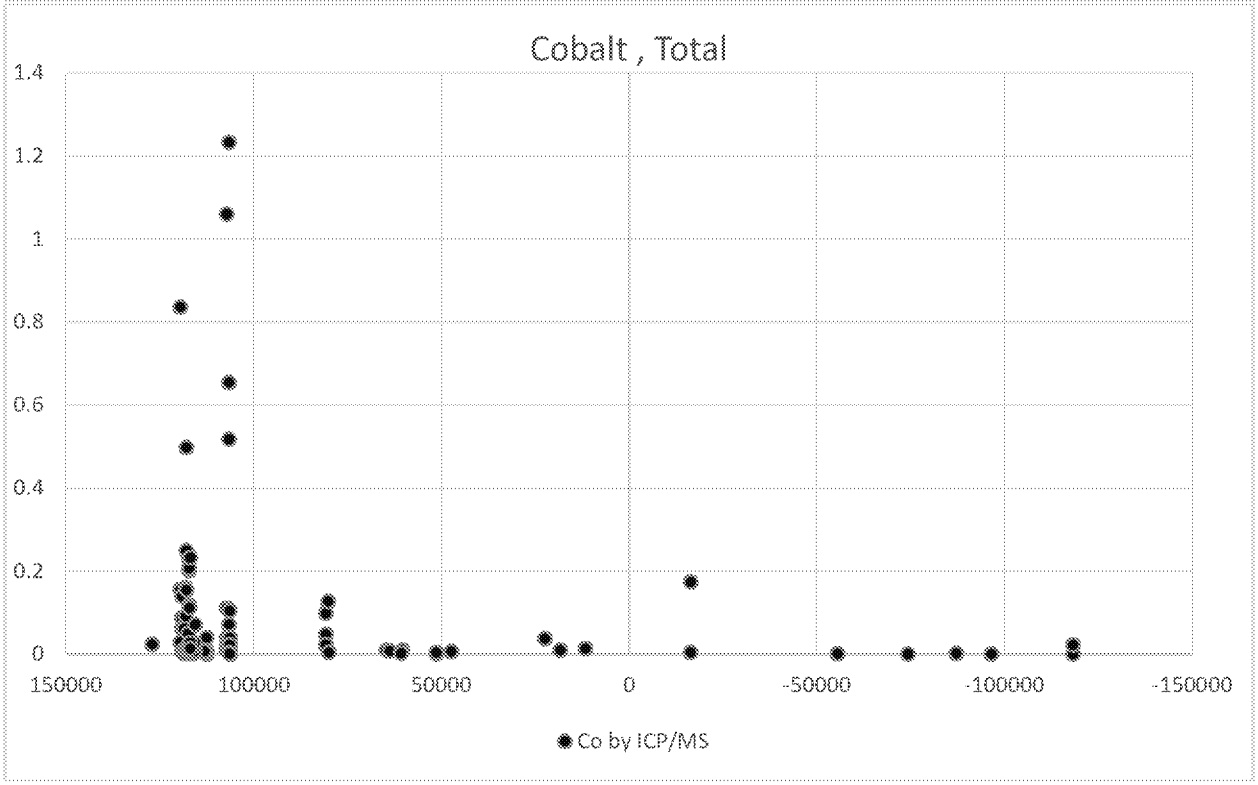


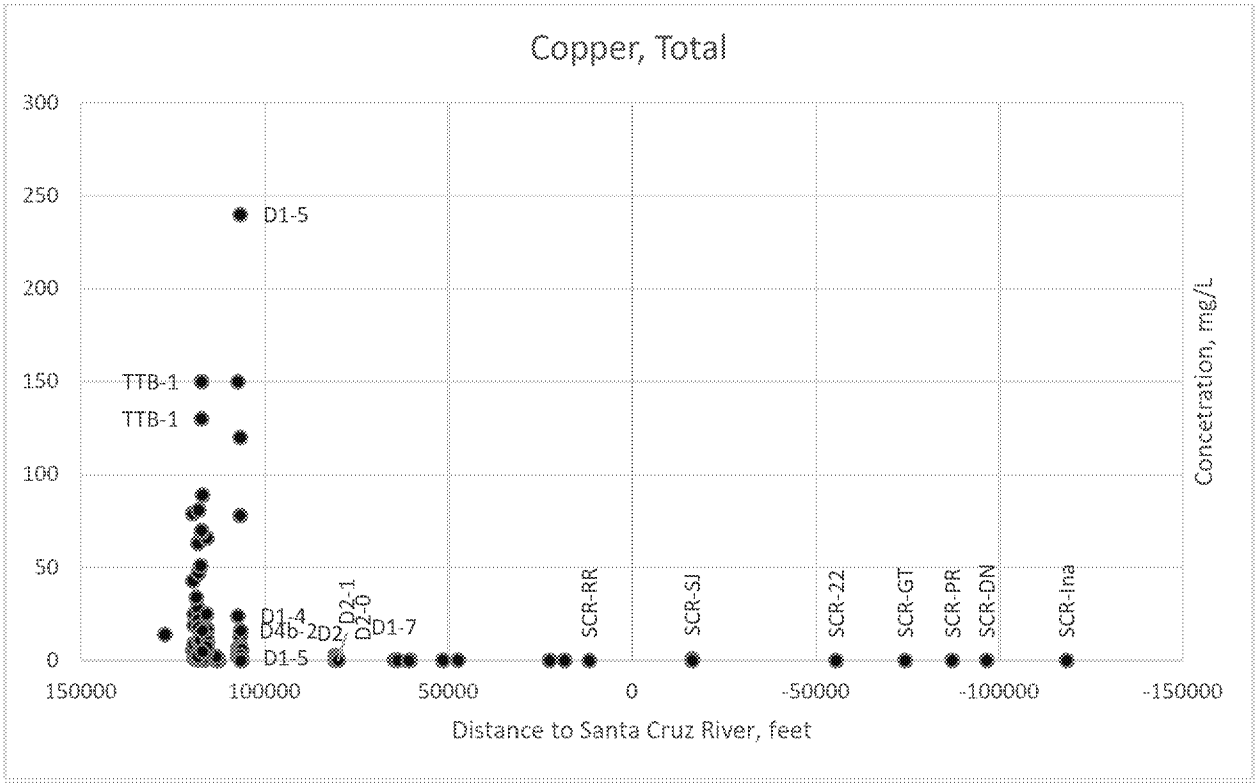


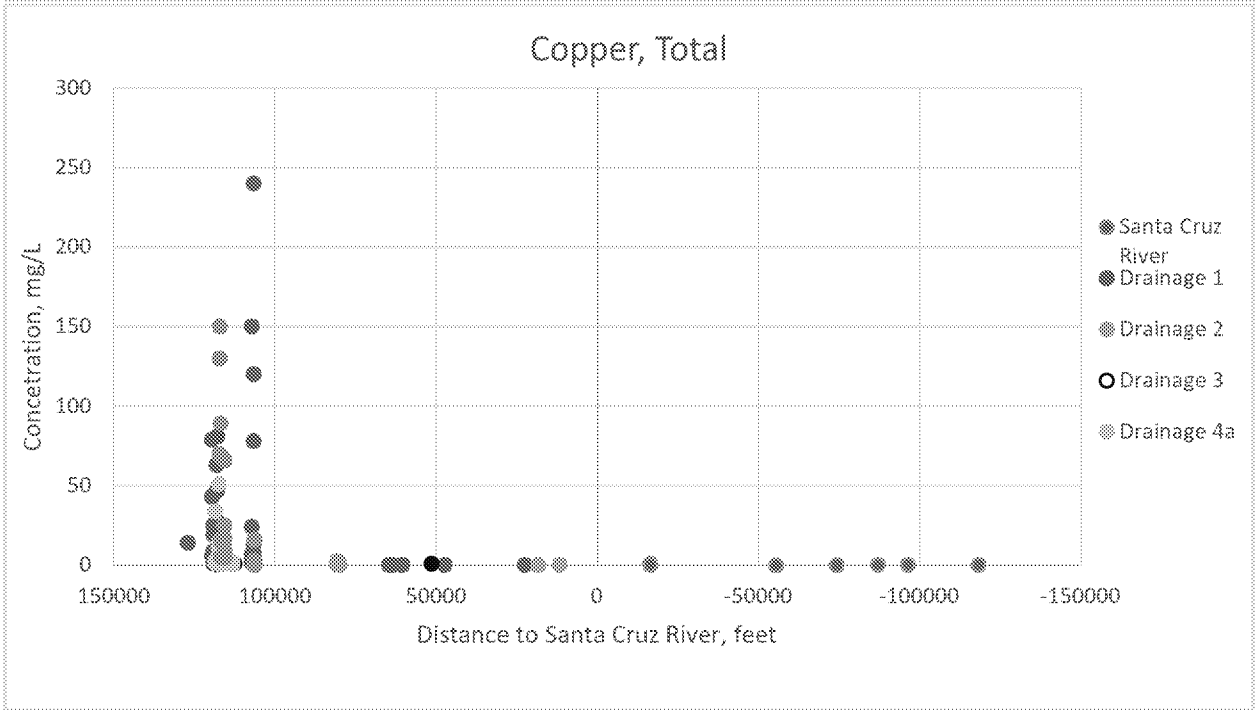

Arsenic , Total
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
150000
100000
50000
0
-50000
-100000
-150000
As by ICP/MS


Cadmium, Total
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
150000
100000
50000
0
-50000
-100000
-150000
Cd by ICP/MS

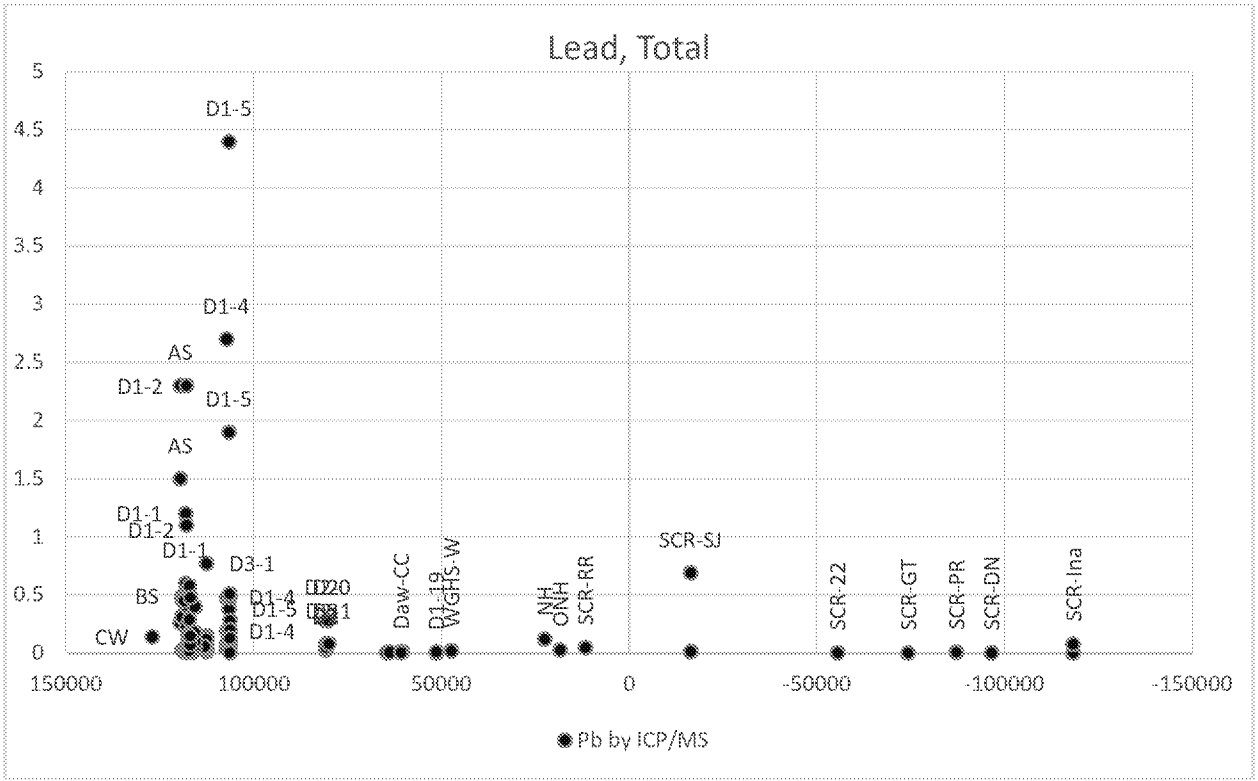

Calcium , Total
12000
10000
8000
6000
4000
2000
0
150000
100000
50000
0
-50000
-100000
-150000
Ca by ICP, Total

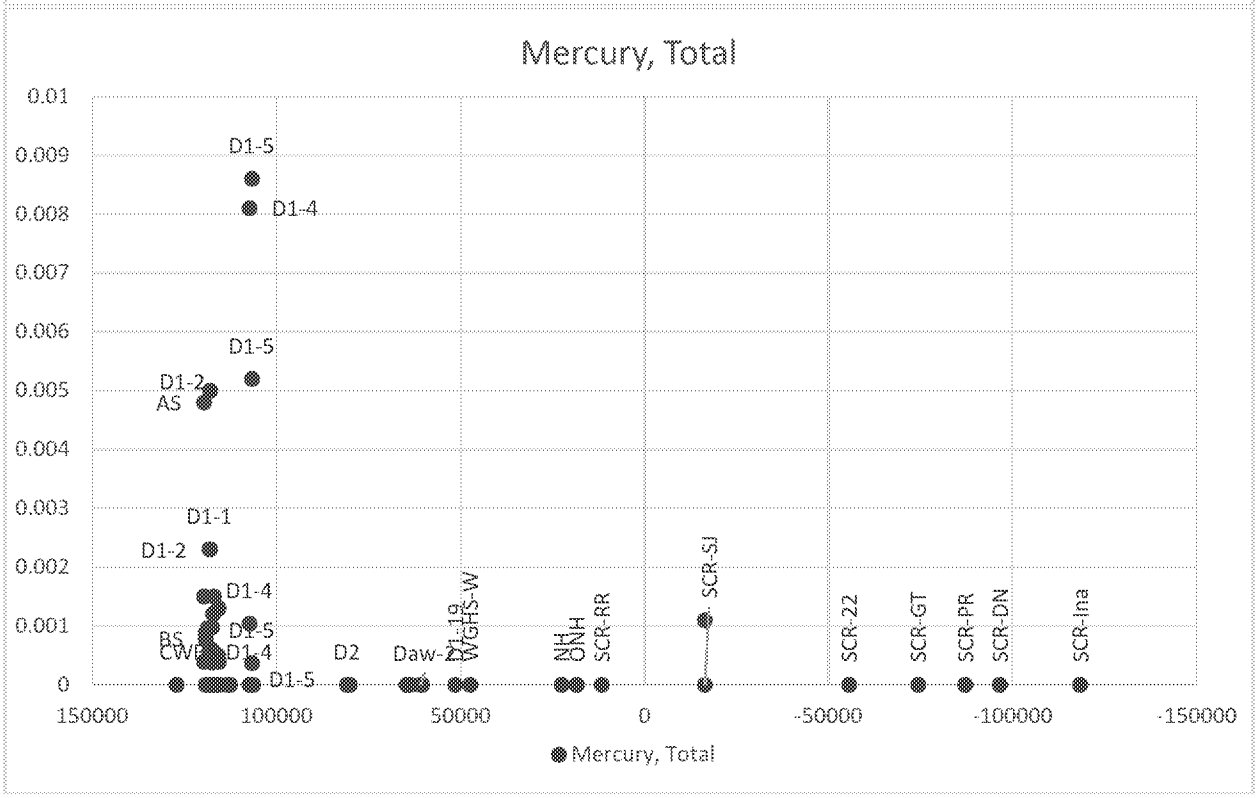

Cobalt , Total
1.4
1.2
1
0.8
0.6
0.4
0.2
0
150000
100000
50000
0
-50000
-100000
-150000
Co by ICP/MS



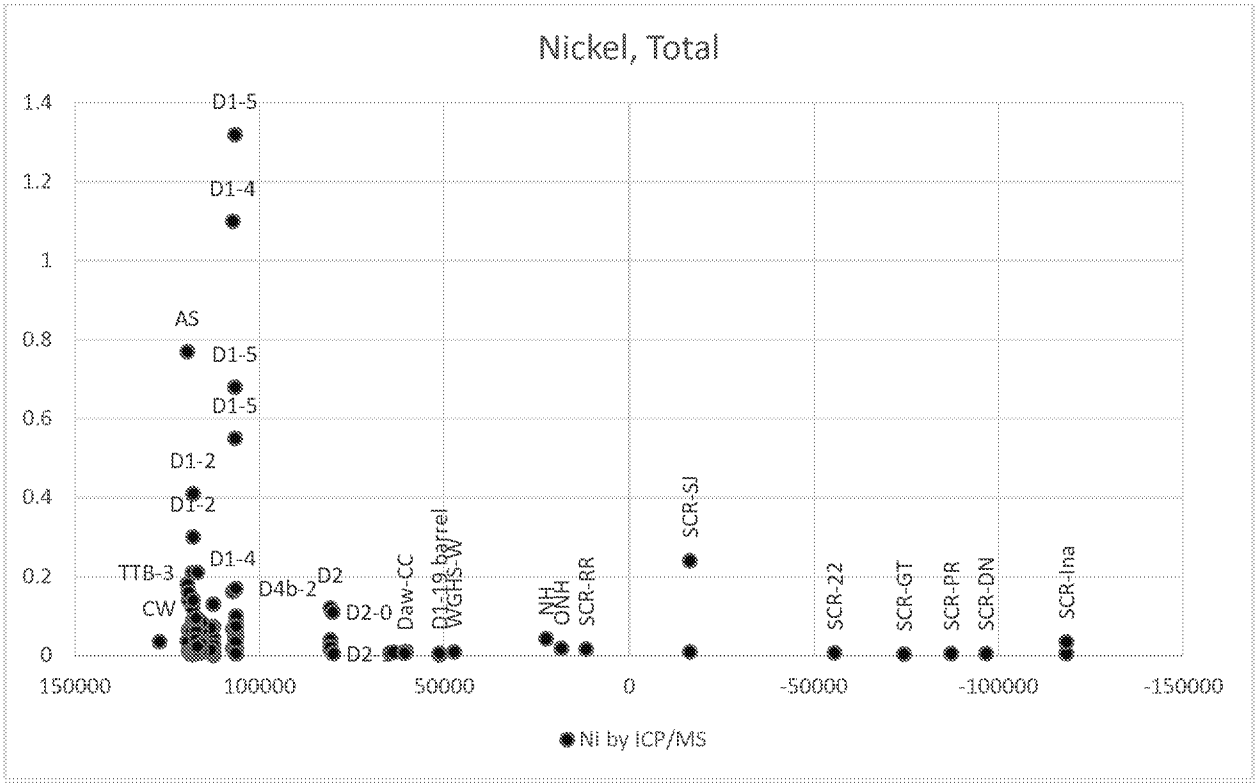


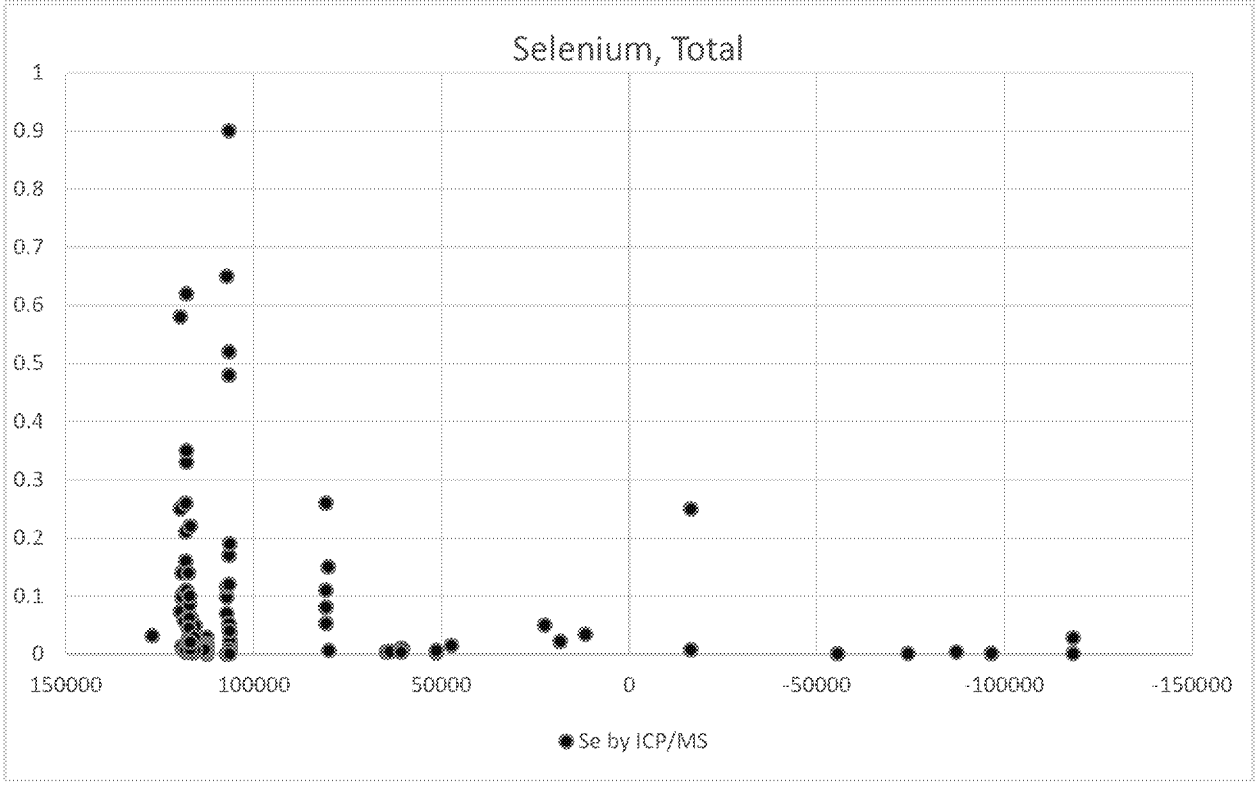
Stormwater Sample Graphs

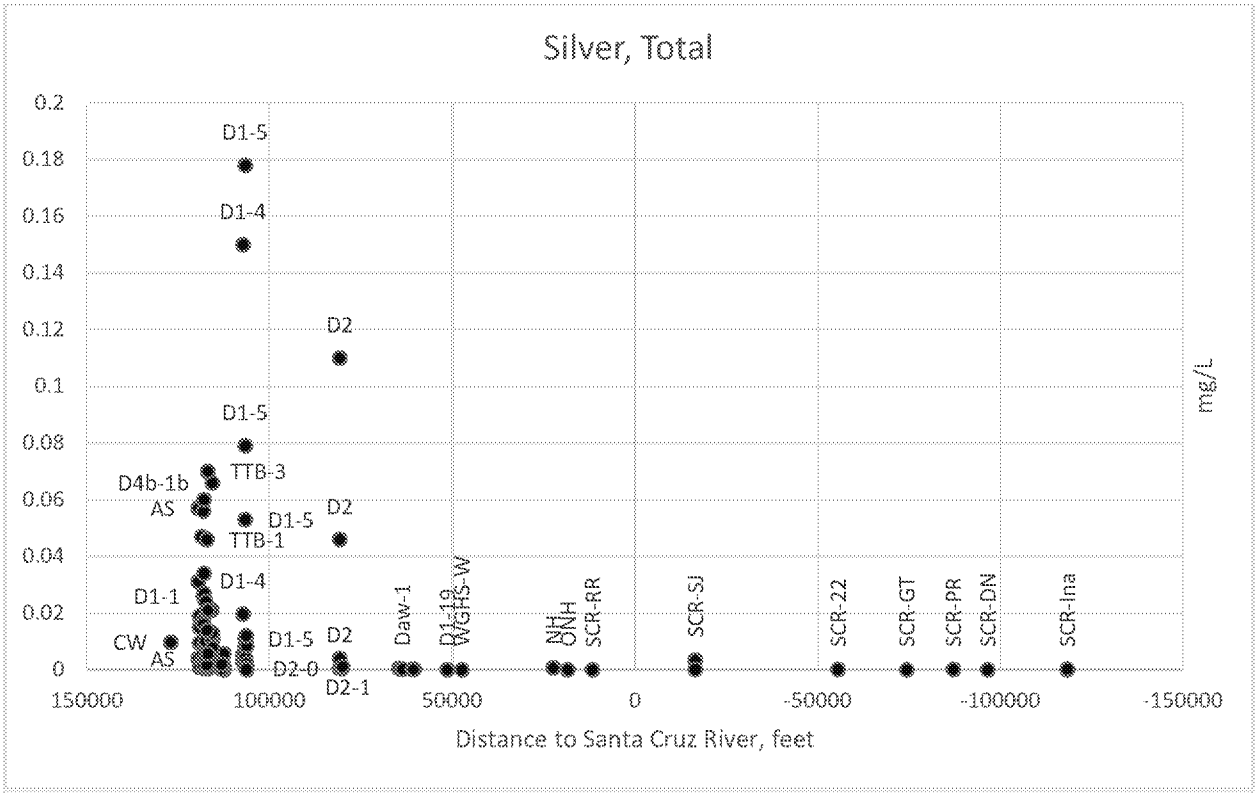


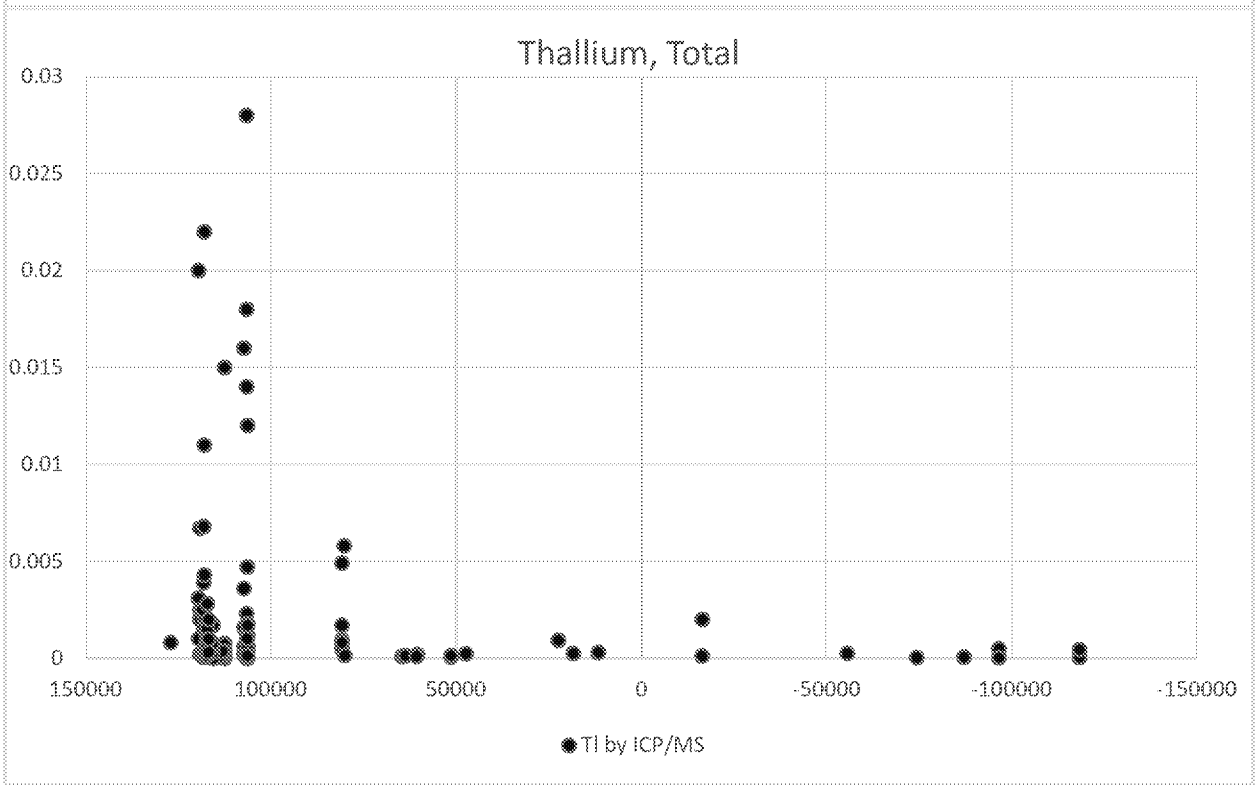


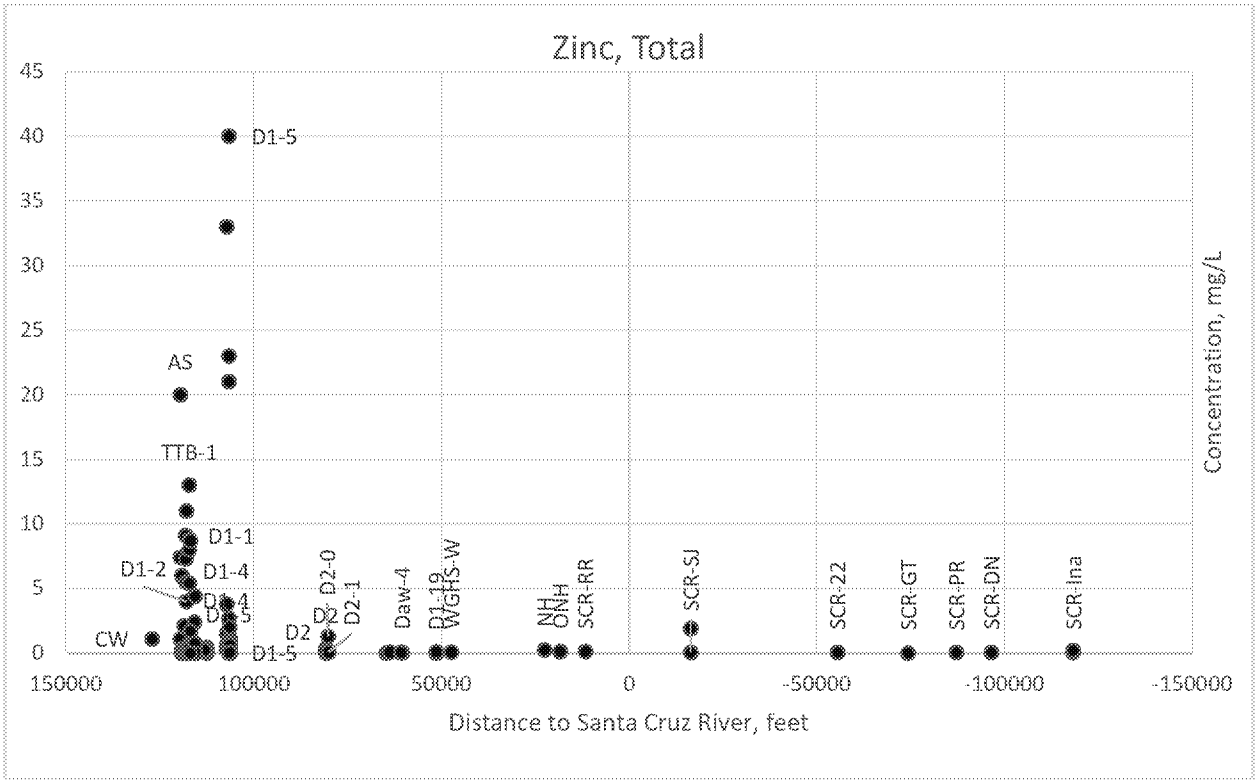
Stormwater Sample Graphs


Nickel, Total
1.4
1.2
1
0.8
0.6
0.4
0.2
0
D1-5
D1-4
AS
D1-5
D1-5
D1-2
D1-2
TTB-3
D1-4
CW
D4b-2
D2
D2-0
D2-
Daw-CC
D1-19 barrel
WGHS-W
NH
ONH
SCR-RR
SCR-SJ
SCR-22
SCR-GT
SCR-PR
SCR-DN
SCR-Ina
150000
100000
50000
0
-50000
-100000
-150000
Ni by ICP/MS


Selenium, Total
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
150000
100000
50000
0
-50000
-100000
-150000
Se by ICP/MS

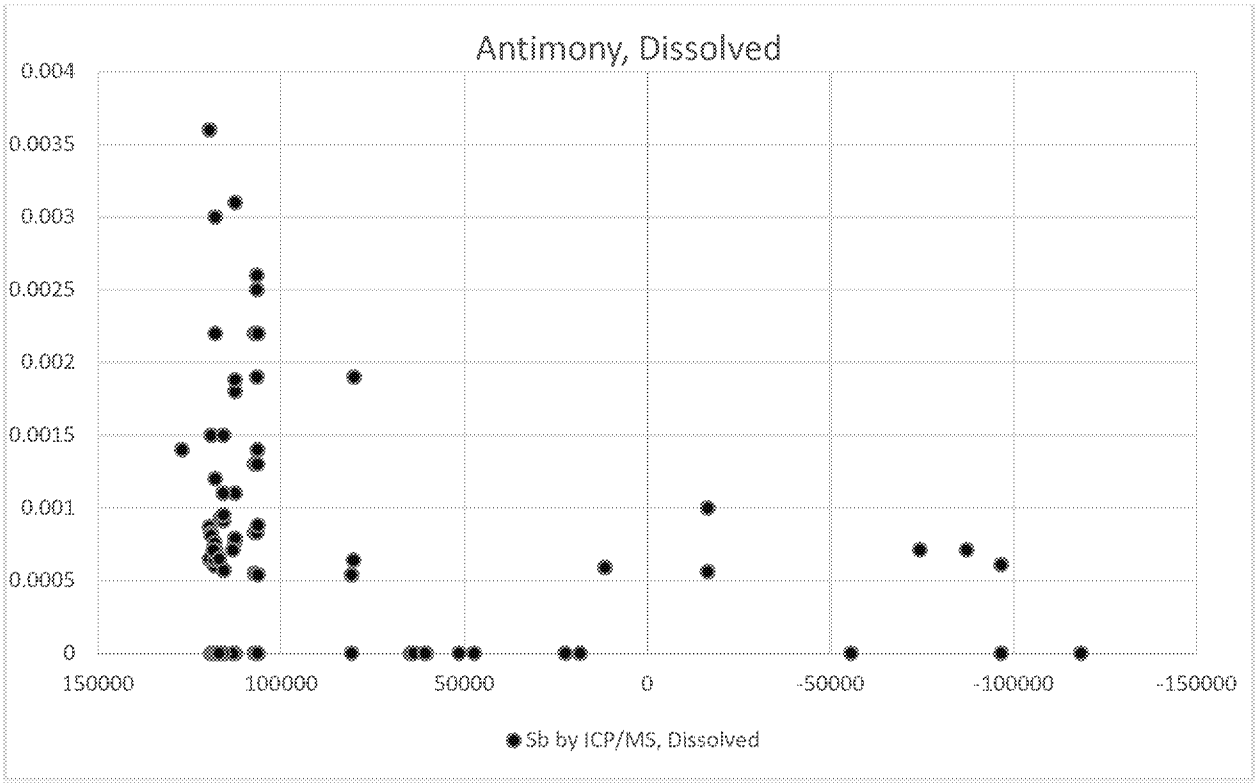

Silver, Total
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
mg/L
D1-5
D1-4
D2
D1-5
TTB-3
D4b-1b
AS
D1-5
D2
TTB-1
D1-1
D1-4
CW
AS
D1-5
D2
D2-0
D2-1
Daw-1
R1-19
WGHS-W
NH
ONH
SCR-RR
SCR-SJ
SCR-22
SCR-GT
SCR-PR
SCR-DN
SCR-Ina
150000
100000
50000
0
-50000
-100000
-150000
Distance to Santa Cruz River, feet

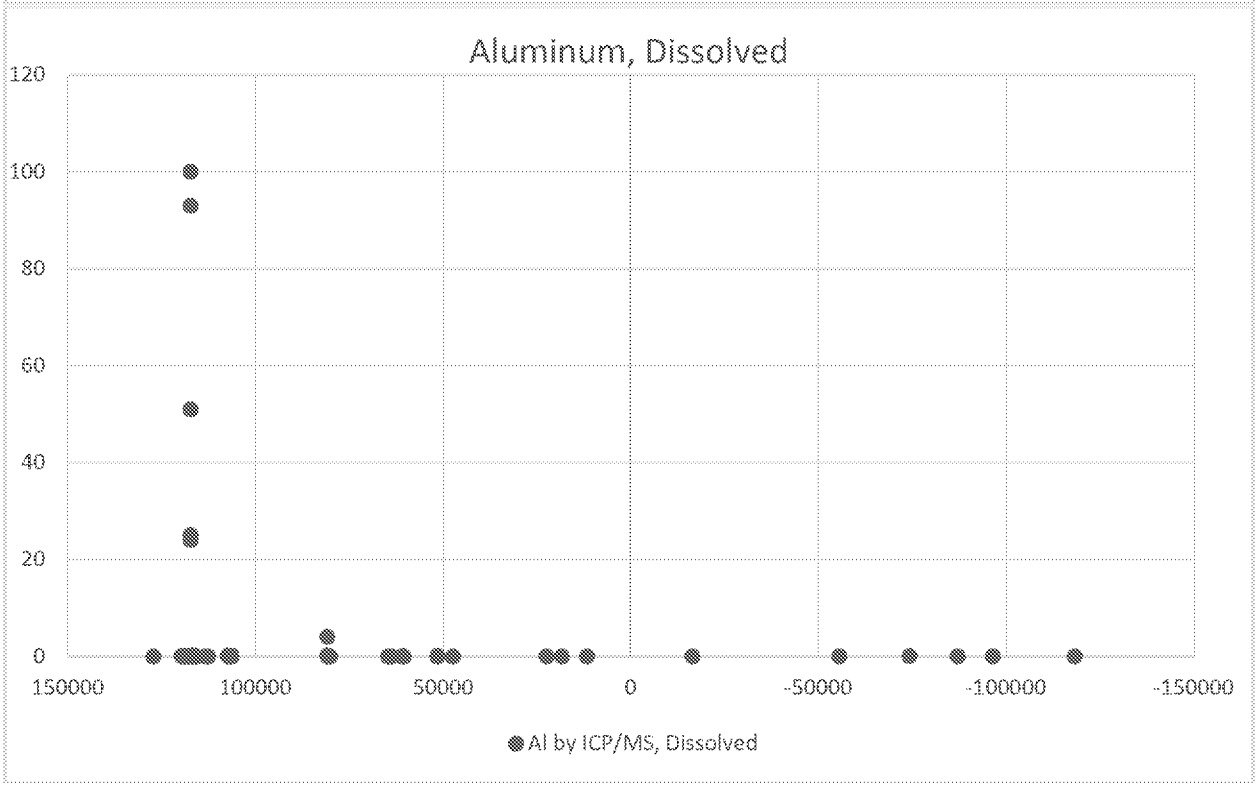

Thallium, Total
0.03
0.025
0.02
0.015
0.01
0.005
0
150000
100000
50000
0
-50000
-100000
-150000
Tl by ICP/MS

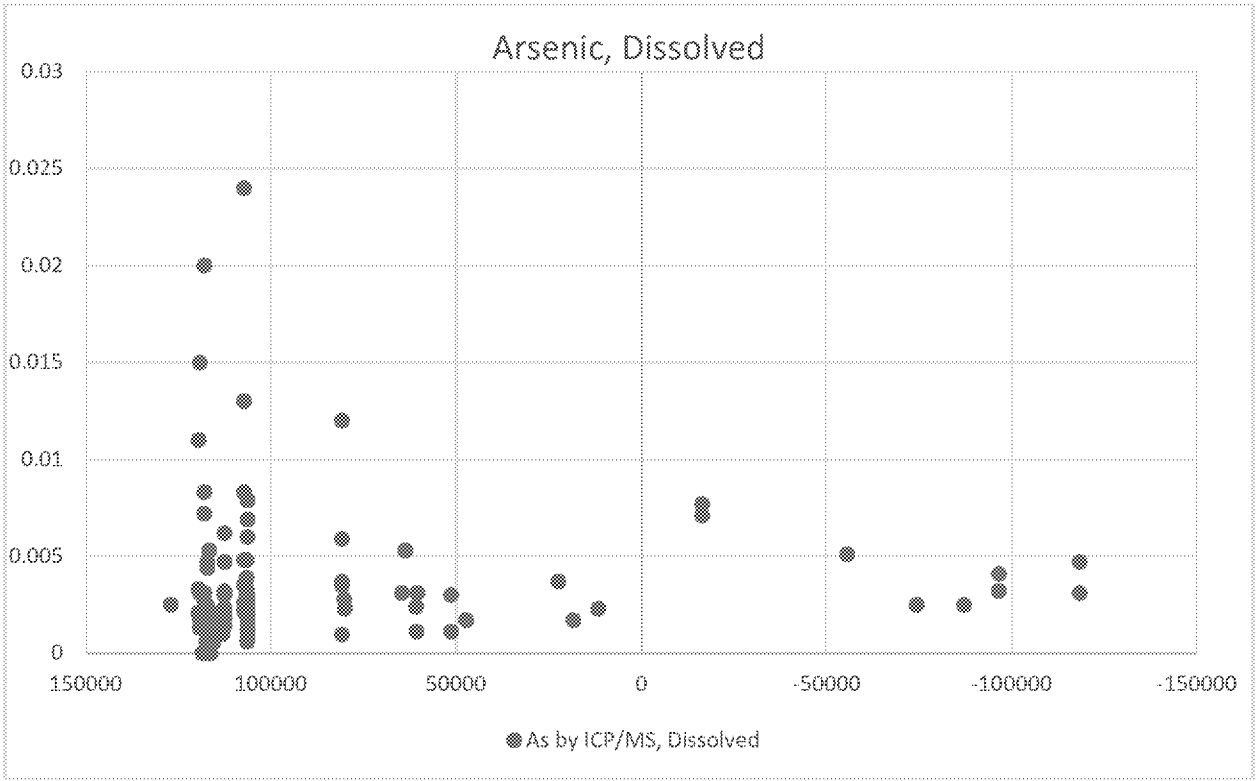

Zinc, Total
45
40
35
30
25
20
15
10
5
0
D1-5
AS
TTB-1
D1-1
D1-2
D1-4
D1-4
D1-5
CW
D1-5
D2
D2-0
D2
D2-1
Daw-4
D1-19
WGHS-W
NH
ONH
SCR-RR
SCR-SJ
SCR-22
SCR-GT
SCR-PR
SCR-DN
SCR-Ina
150000
100000
50000
0
-50000
-100000
-150000
Distance to Santa Cruz River, feet
Concentration, mg/L

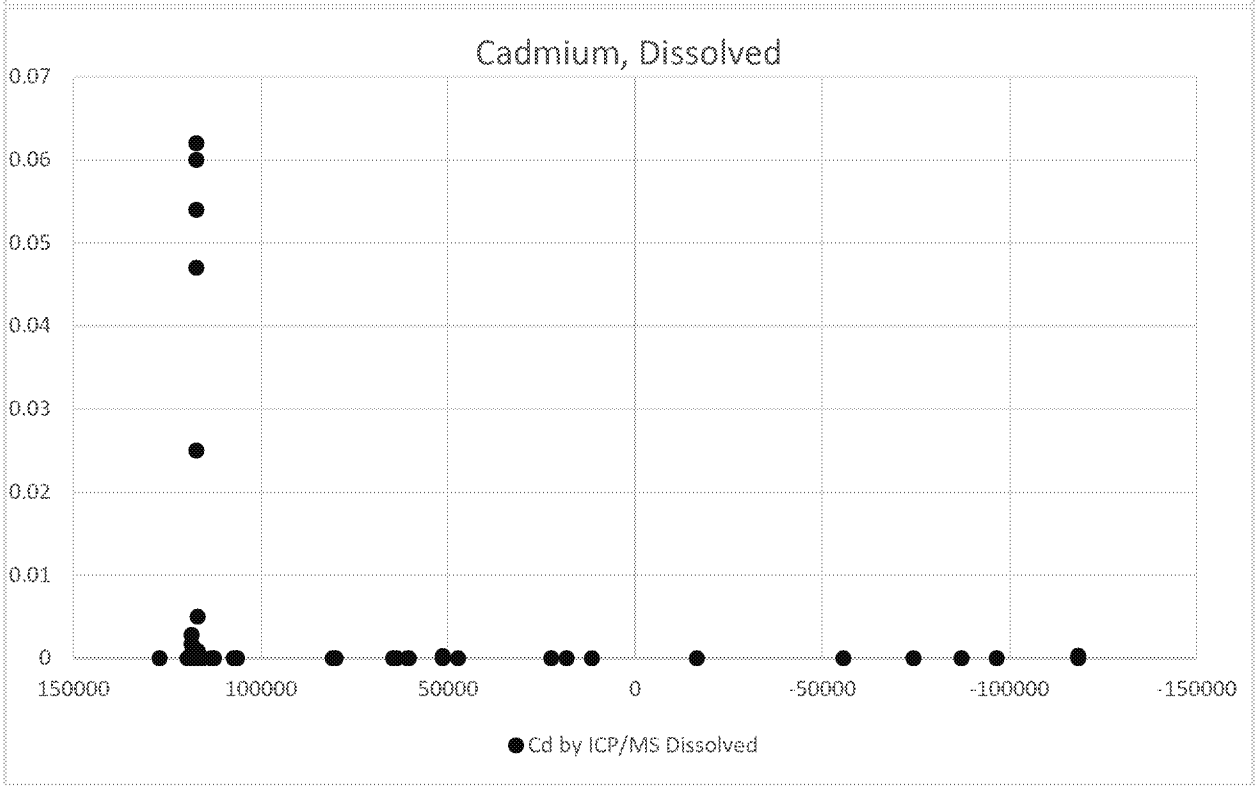
Dissolved Metals

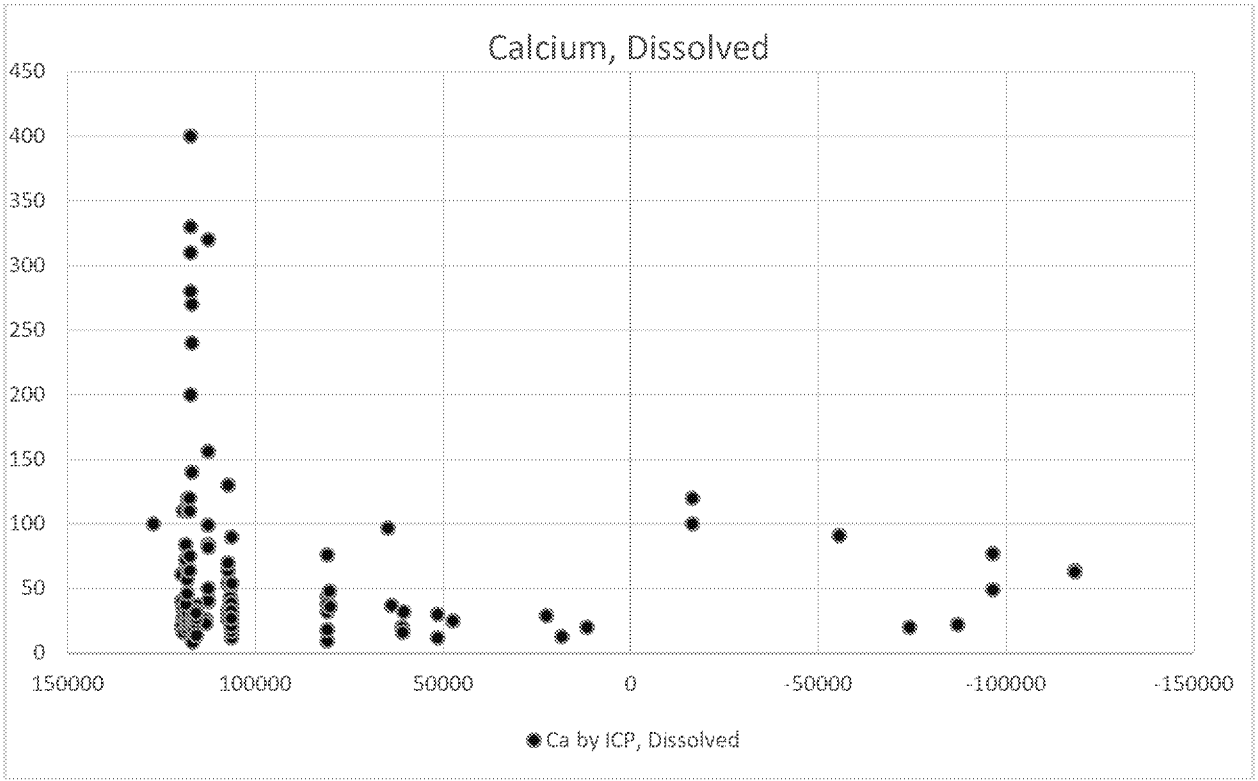
(Presented in milligrams per liter)

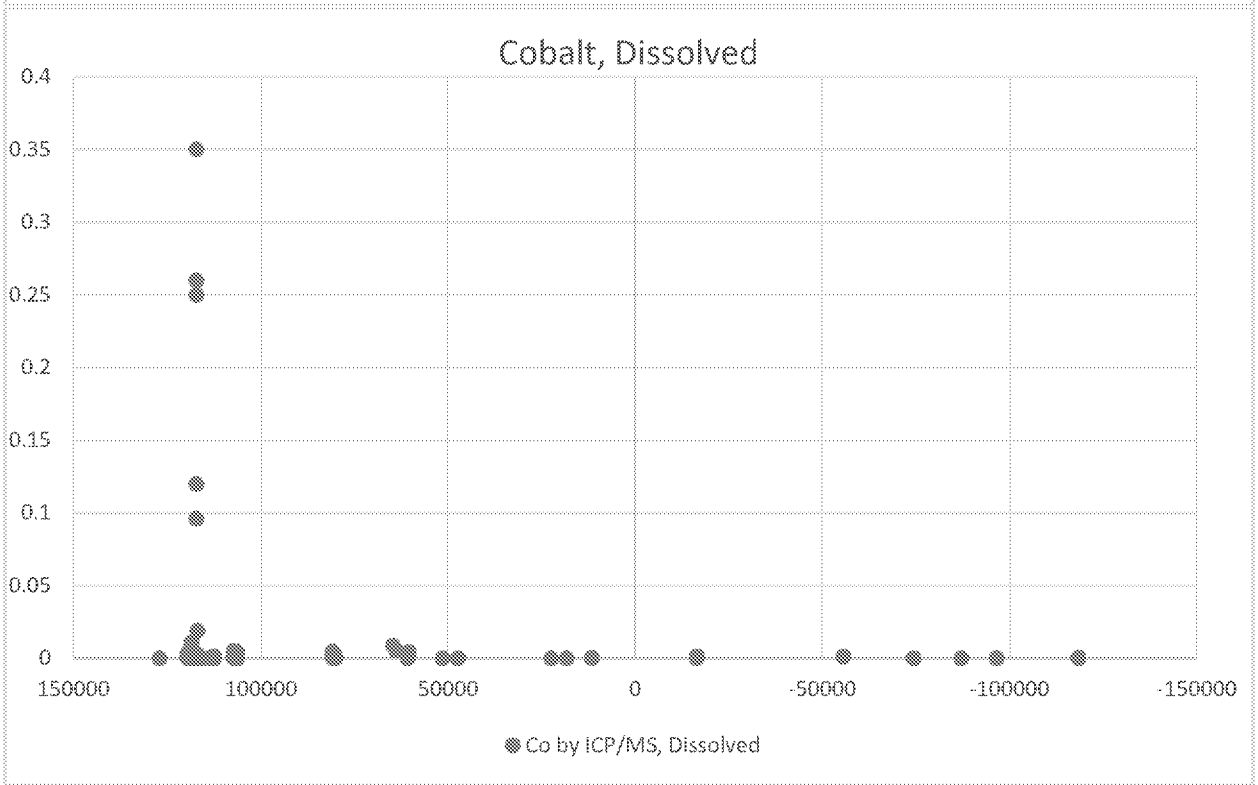




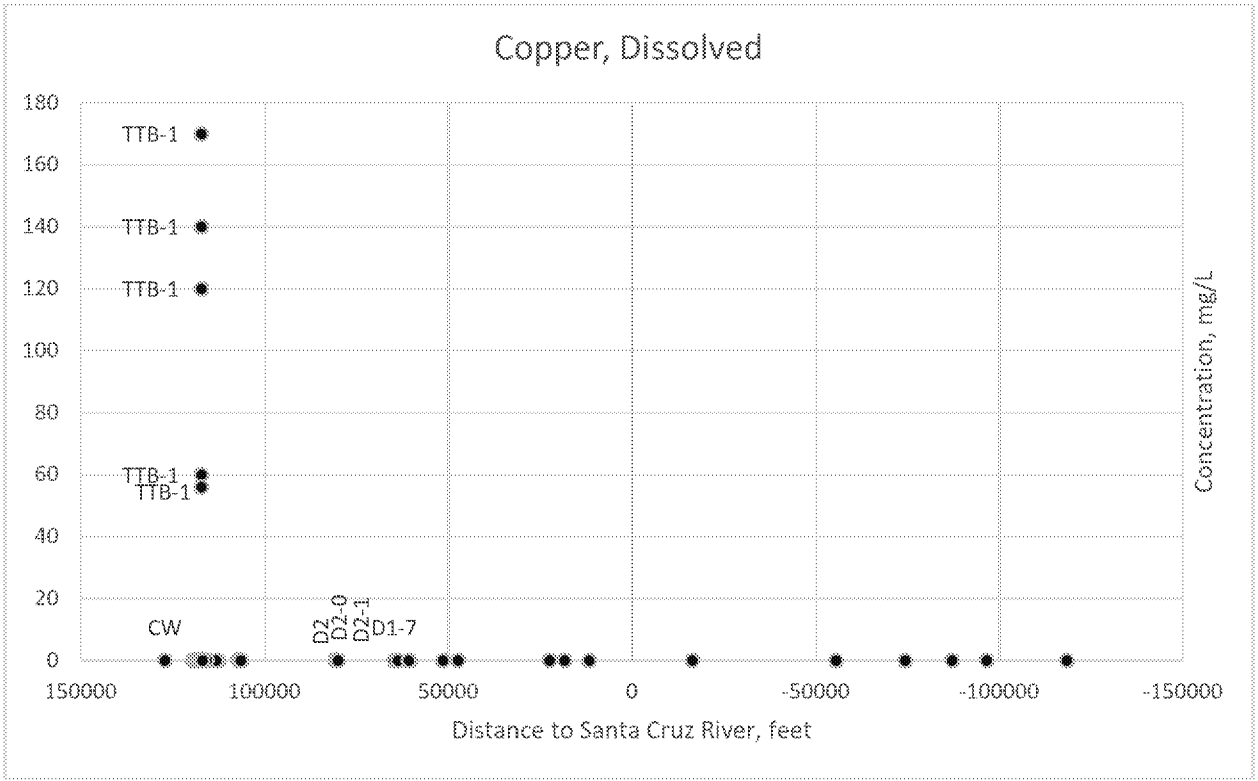

Arsenic, Dissolved
0.03
0.025
0.02
0.015
0.01
0.005
0
150000
100000
50000
0
-50000
-100000
-150000
As by ICP/MS, Dissolved

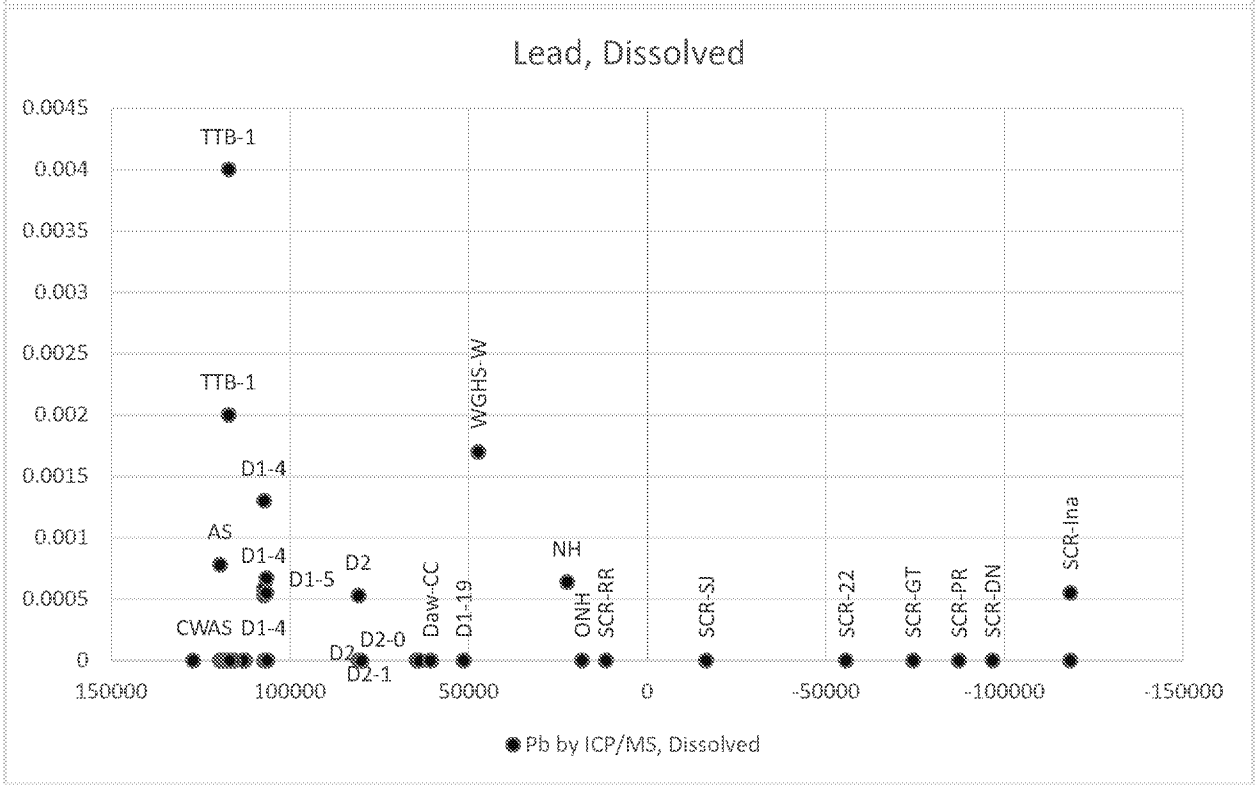

Cadmium, Dissolved
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
150000
100000
50000
0
-50000
-100000
-150000
Cd by ICP/MS Dissolved

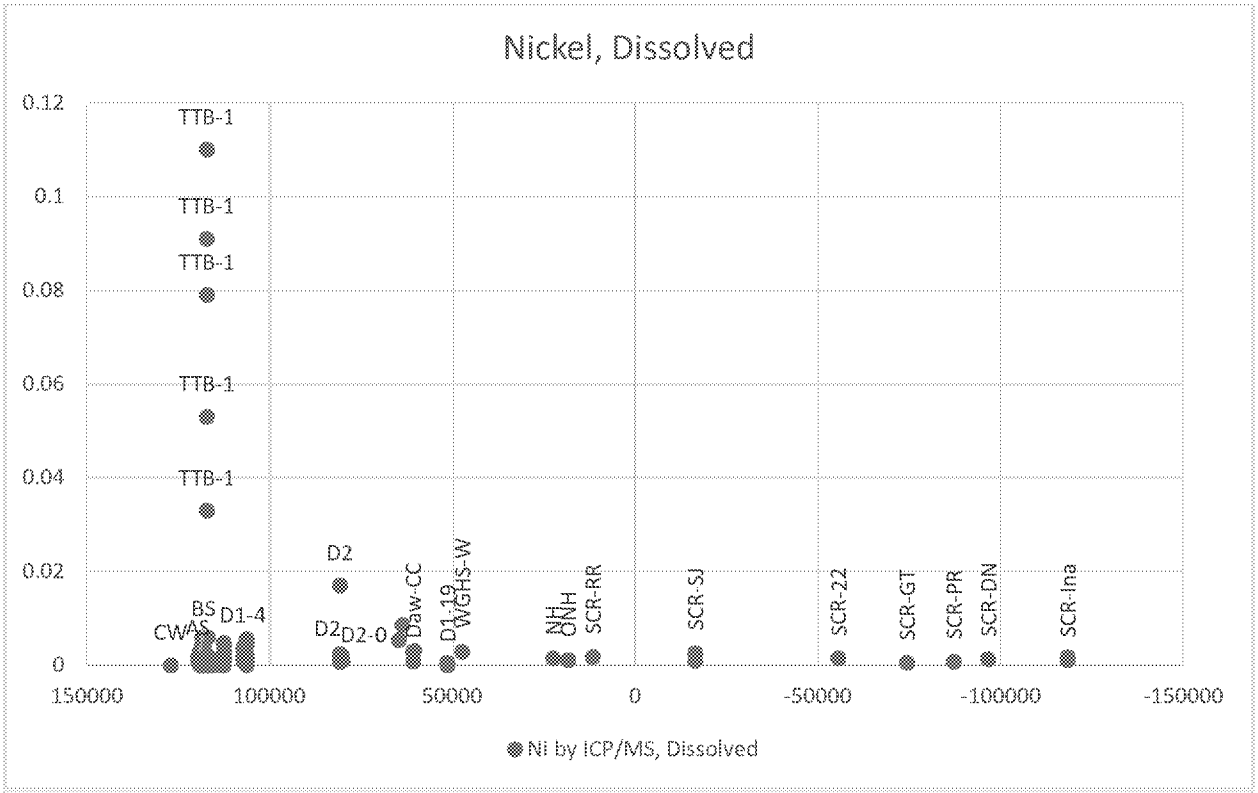


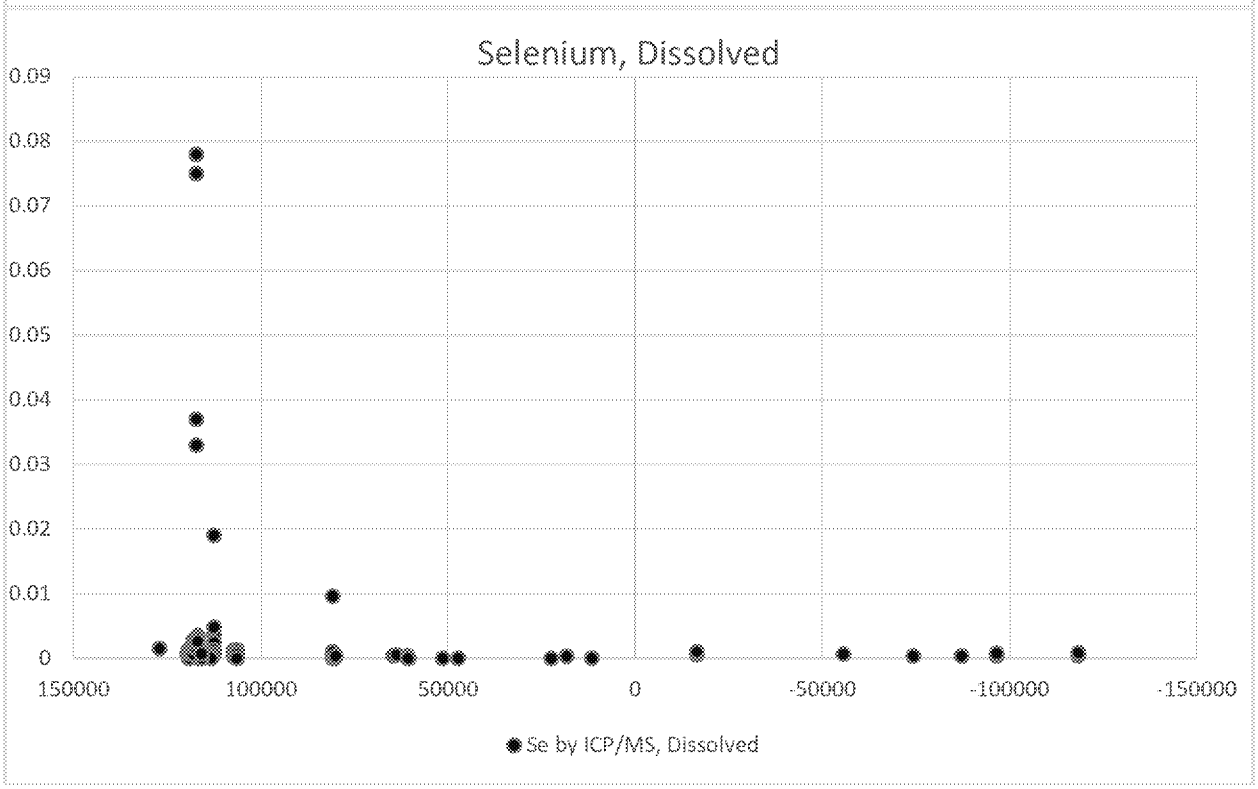


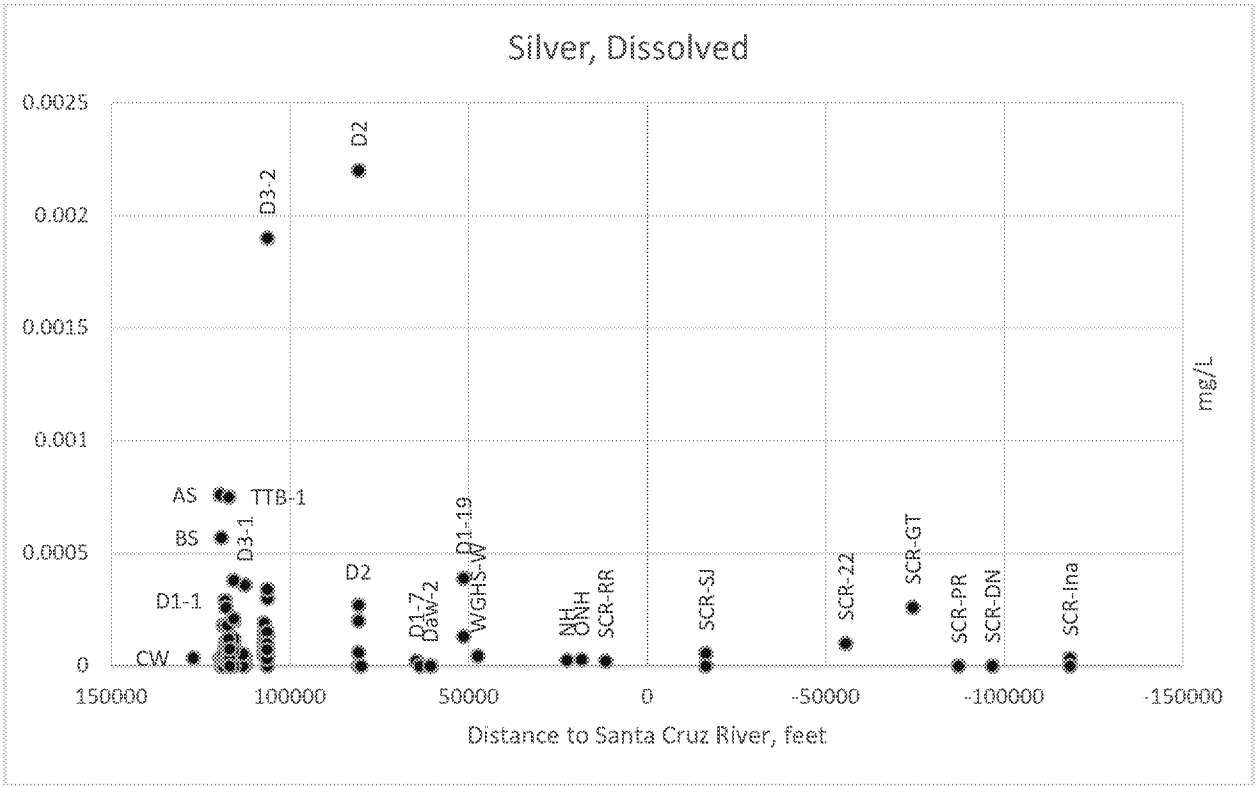
Stormwater Sample Graphs

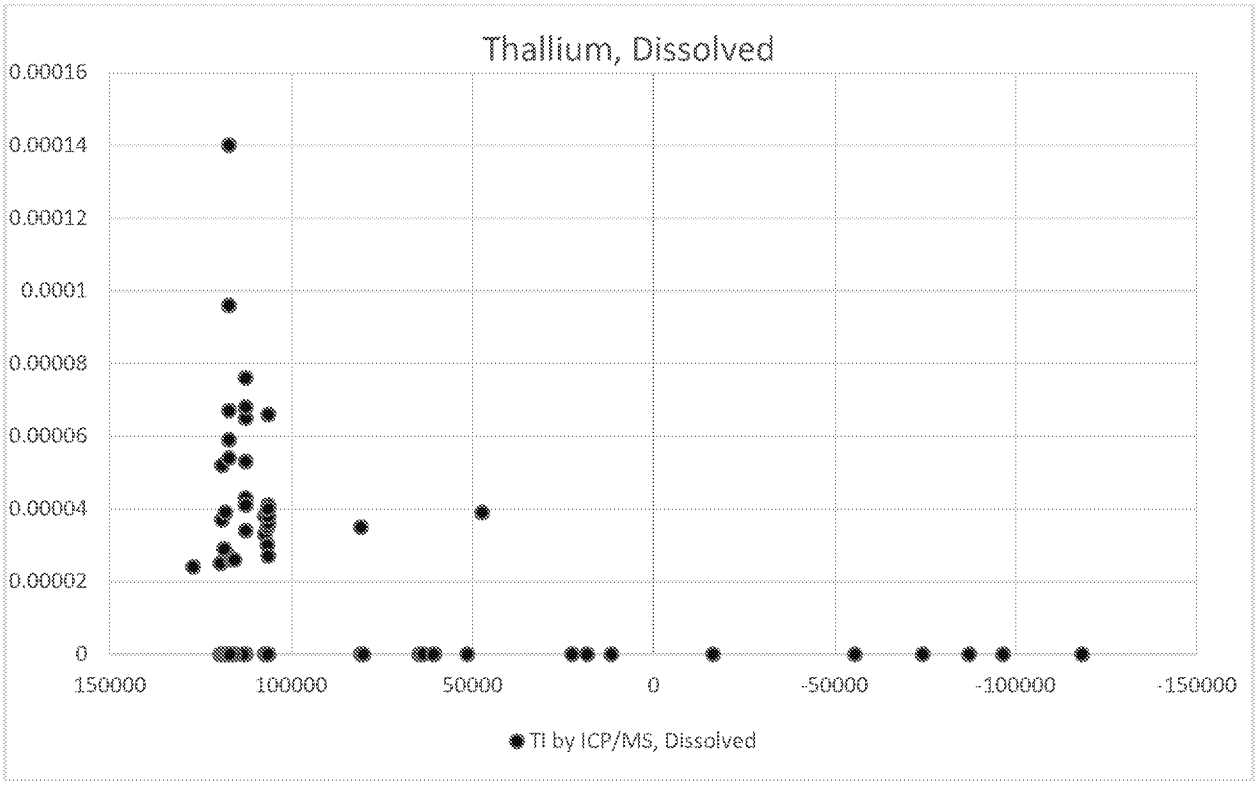

Copper, Dissolved
180
160
140
120
100
80
60
40
20
0
TTB-1
TTB-1
TTB-1
TTB-1
TTB-1
CW
D2
D2-0
D2-1
D1-7
150000
100000
50000
0
-50000
-100000
-150000
Distance to Santa Cruz River, feet
Concentration, mg/L

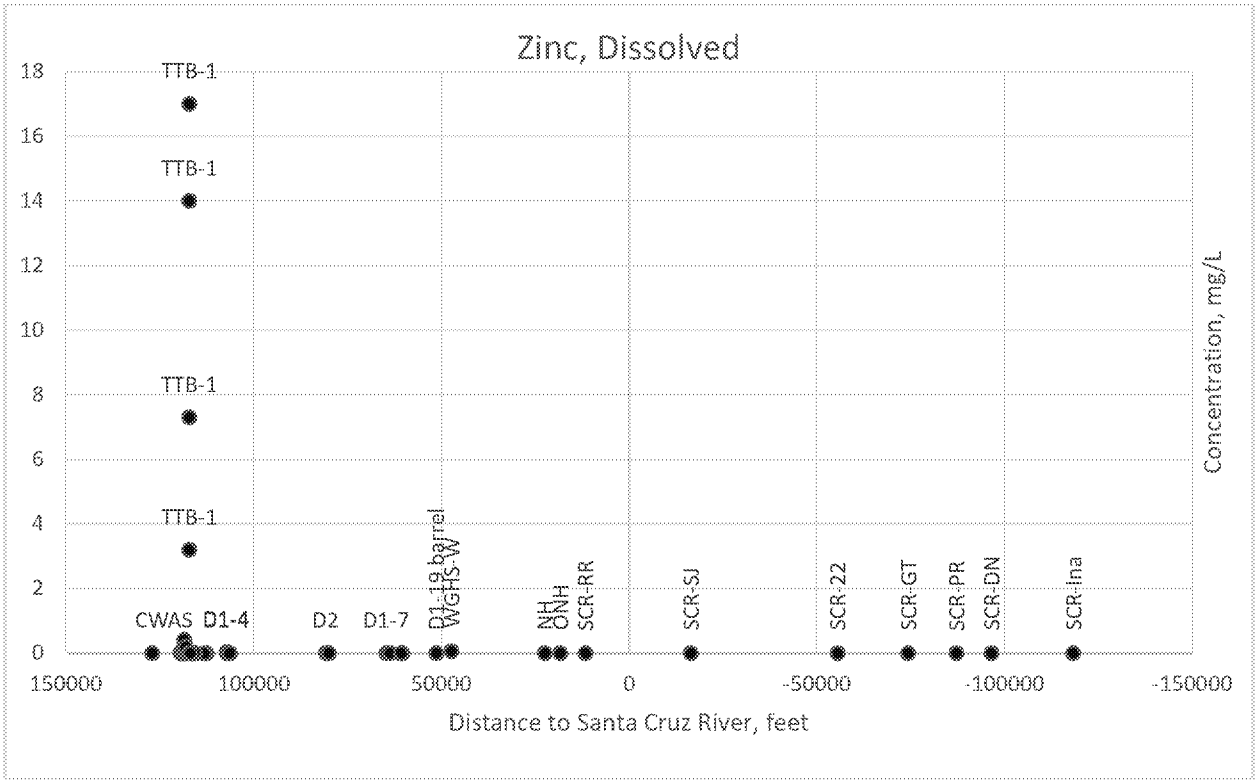

Lead, Dissolved
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
TTB-1
TTB-1
WGHS-W
D1-4
AS
D1-4
D1-5
D2
Daw-CC
D1-19
NH
ONH
SCR-RR
SCR-SJ
SCR-22
SCR-GT
SCR-PR
SCR-DN
SCR-Ina
CWAS
D1-4
D2
D2-0
D2-1
150000
100000
50000
0
-50000
-100000
-150000
Pb by ICP/MS, Dissolved


Nickel, Dissolved
0.12
0.1
0.08
0.06
0.04
0.02
0
TTB-1
TTB-1
TTB-1
TTB-1
TTB-1
TTB-1
D2
CW
BS
AS
D1-4
D2
D2-0
Daw-CC
D1-19
WGHS-W
NH
ONH
SCR-RR
SCR-SJ
SCR-22
SCR-GT
SCR-PR
SCR-DN
SCR-Ina
150000
100000
50000
0
-50000
-100000
-150000
Ni by ICP/MS, Dissolved


Selenium, Dissolved
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
150000
100000
50000
0
-50000
-100000
-150000
Se by ICP/MS, Dissolved


Silver, Dissolved
0.0025
0.002
0.0015
0.001
0.0005
0
mg/L
D2
D3-2
AS
TTB-1
BS
D3-1
D1-19
D2
D1-1
D1-7
BaW-2
WGHS-W
NH
ONH
SCR-RR
SCR-SJ
SCR-22
SCR-GT
SCR-PR
SCR-DN
SCR-Ina
CW
150000
100000
50000
0
-50000
-100000
-150000
Distance to Santa Cruz River, feet

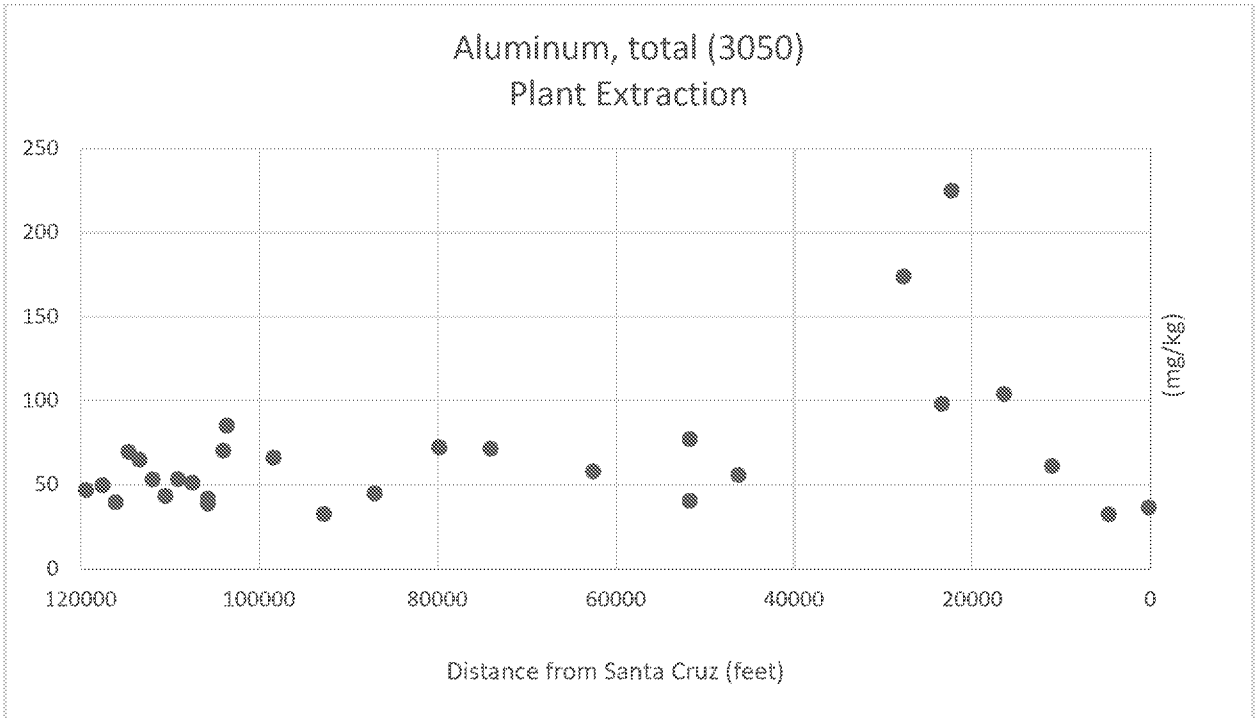

Thallium, Dissolved
0.00016
0.00014
0.00012
0.0001
0.00008
0.00006
0.00004
0.00002
0
150000
100000
50000
0
-50000
-100000
-150000
Tl by ICP/MS, Dissolved

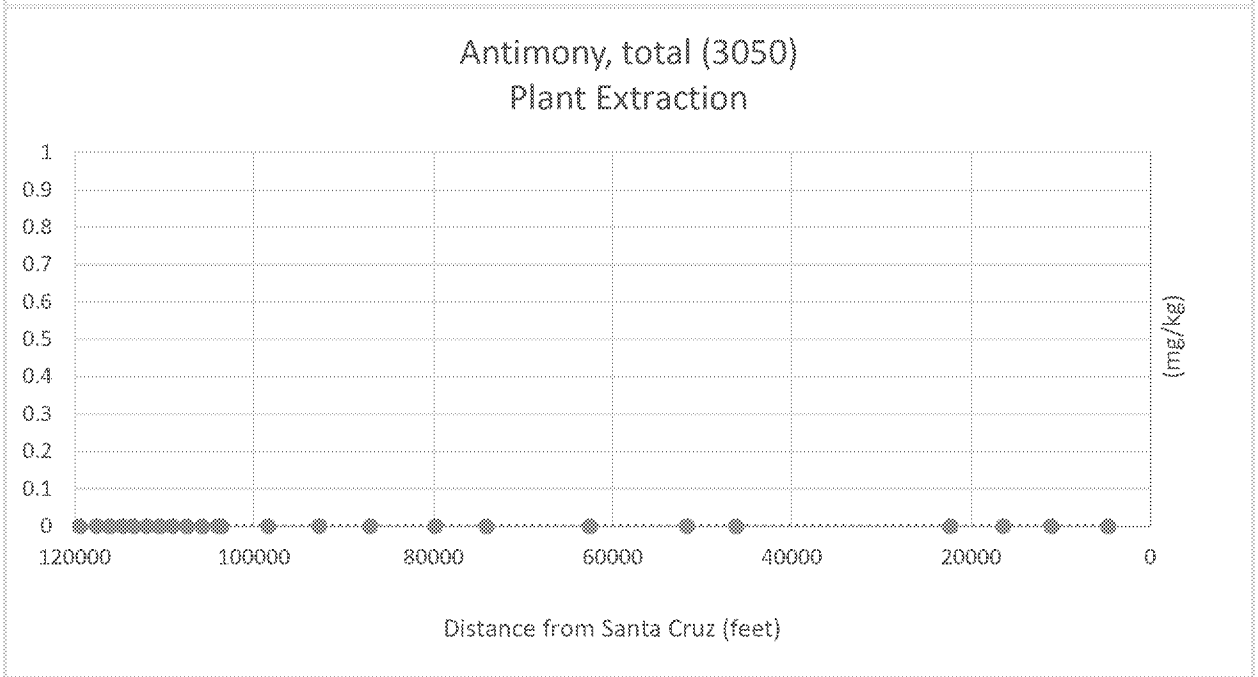


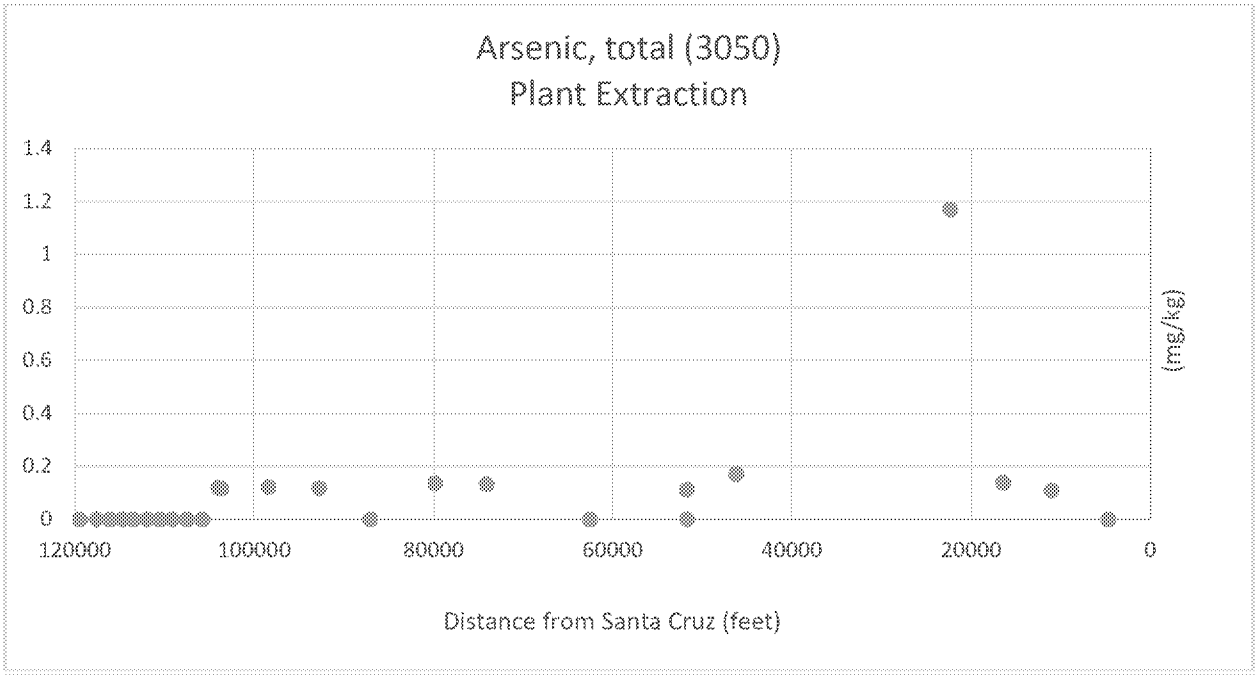
Stormwater Sample Graphs

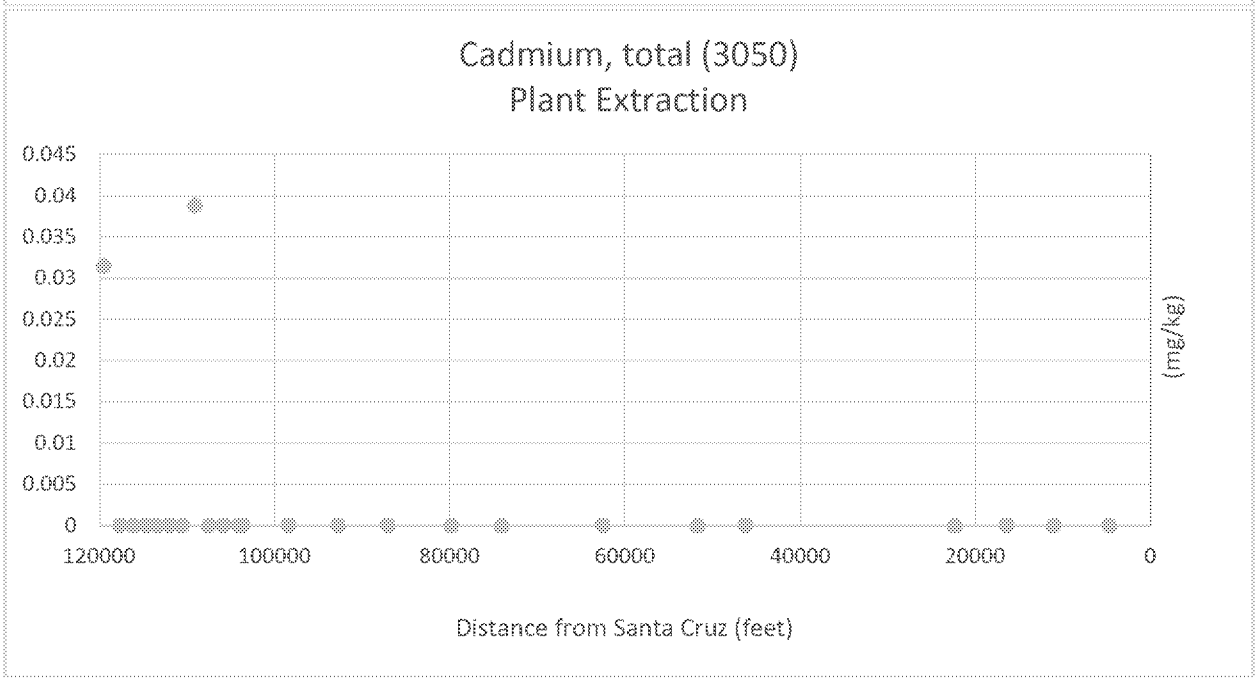
ATTACHMENT E

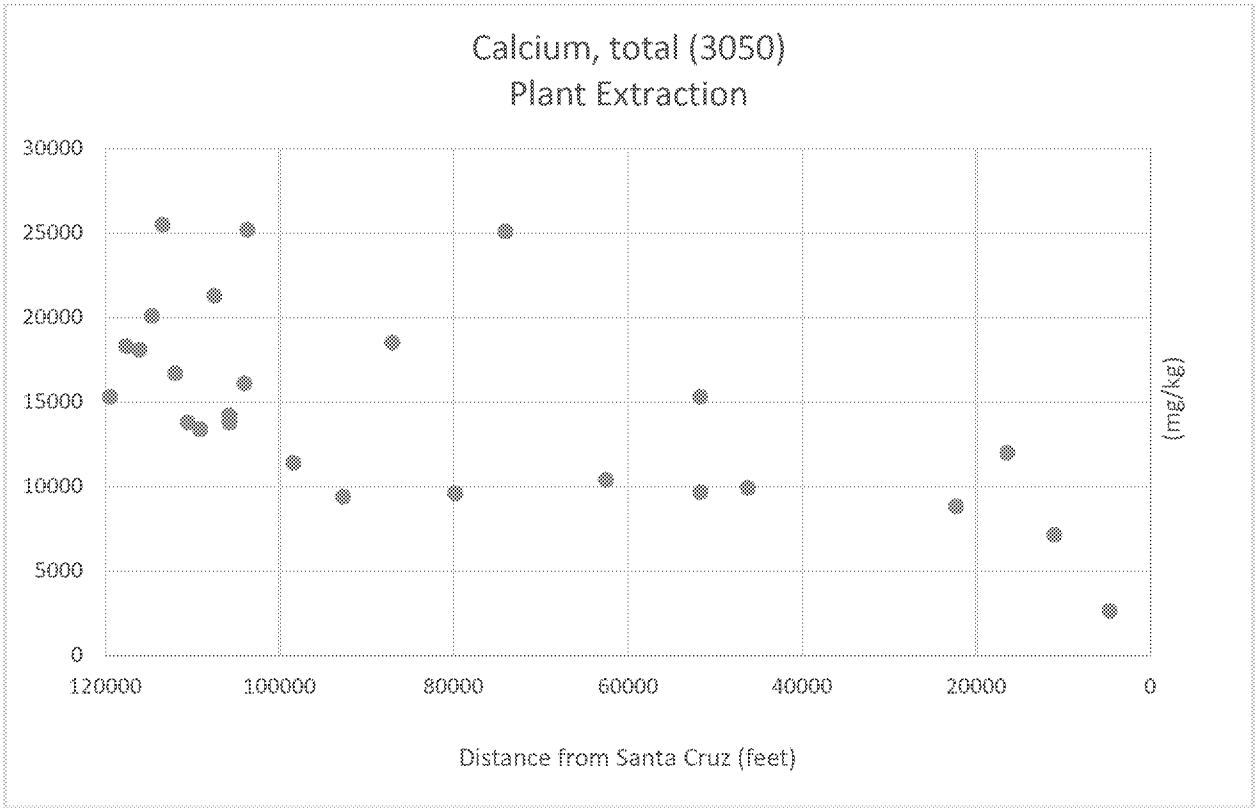
Biological Graphs

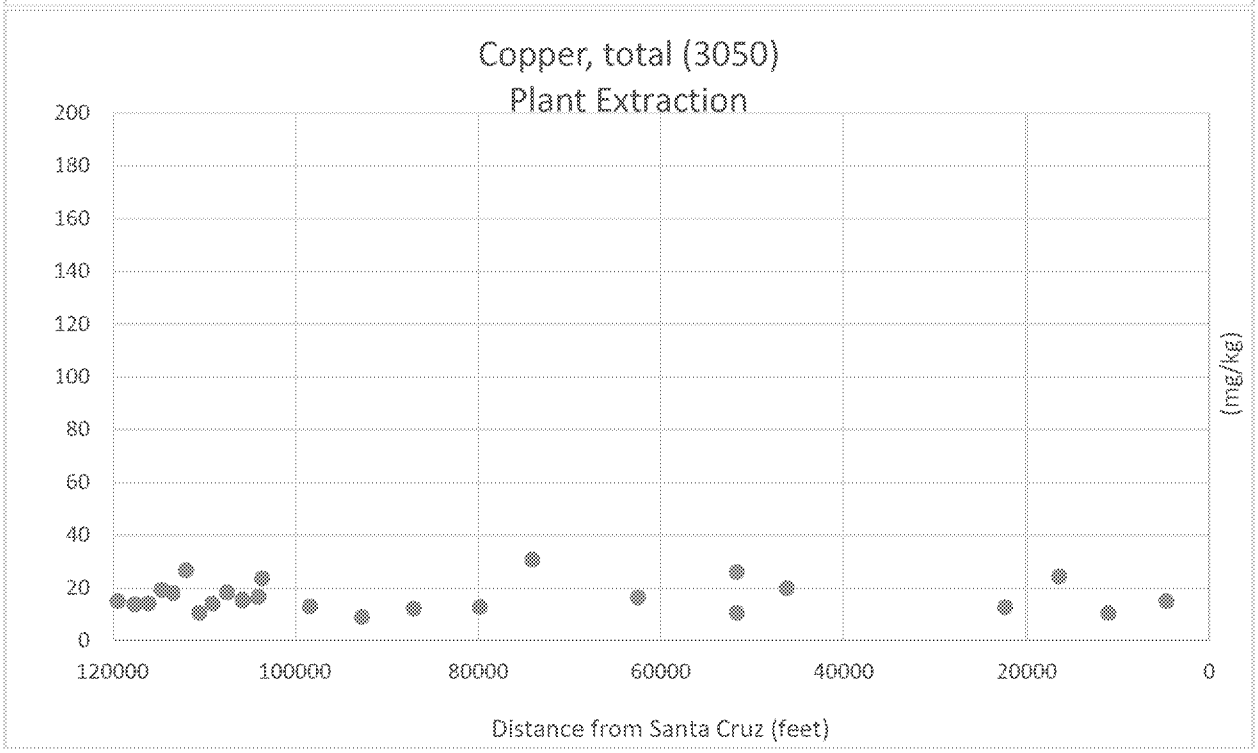

Aluminum, total (3050)
Plant Extraction
250
200
150
100
50
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

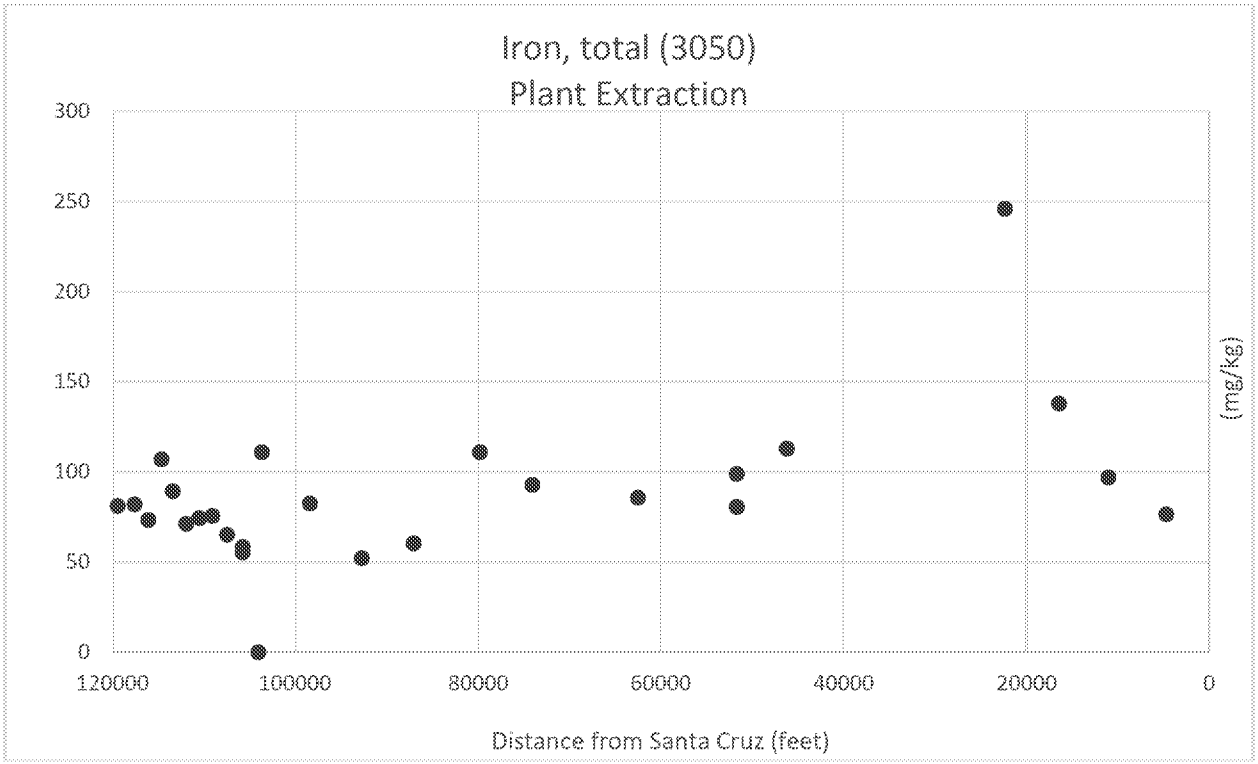

Antimony, total (3050)
Plant Extraction
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

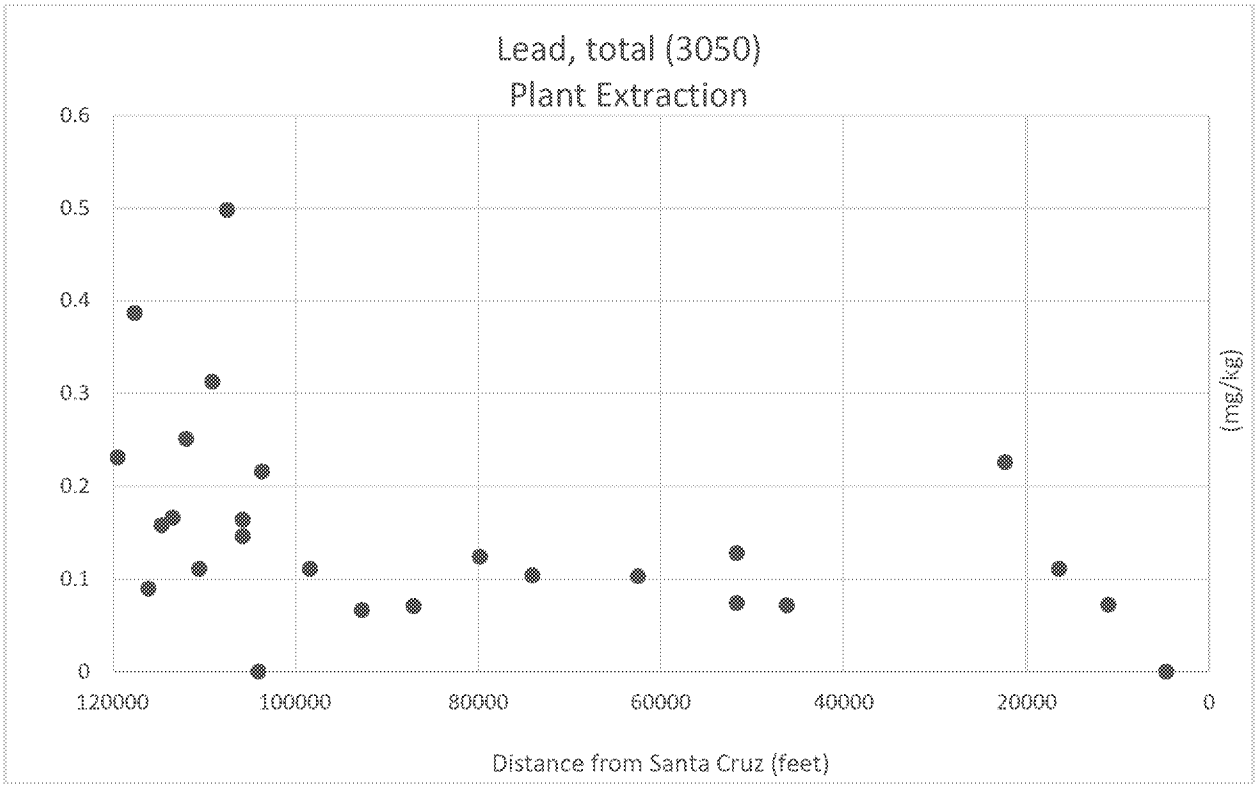

Arsenic, total (3050)
Plant Extraction
1.4
1.2
1
0.8
0.6
0.4
0.2
0
120000
100000
80000
60000
40000
20000
0
(µg/kg)
Distance from Santa Cruz (feet)

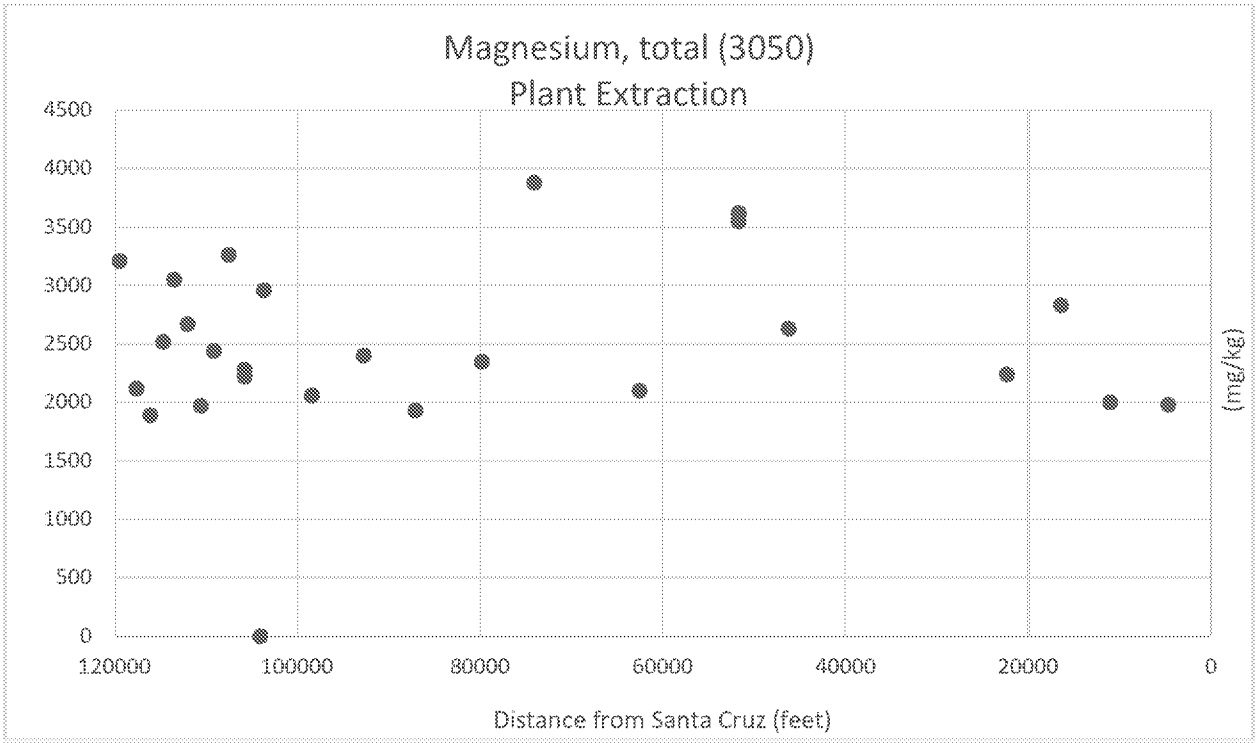

Cadmium, total (3050)
Plant Extraction
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
120000
100000
80000
60000
40000
20000
0
(µg/kg)
Distance from Santa Cruz (feet)

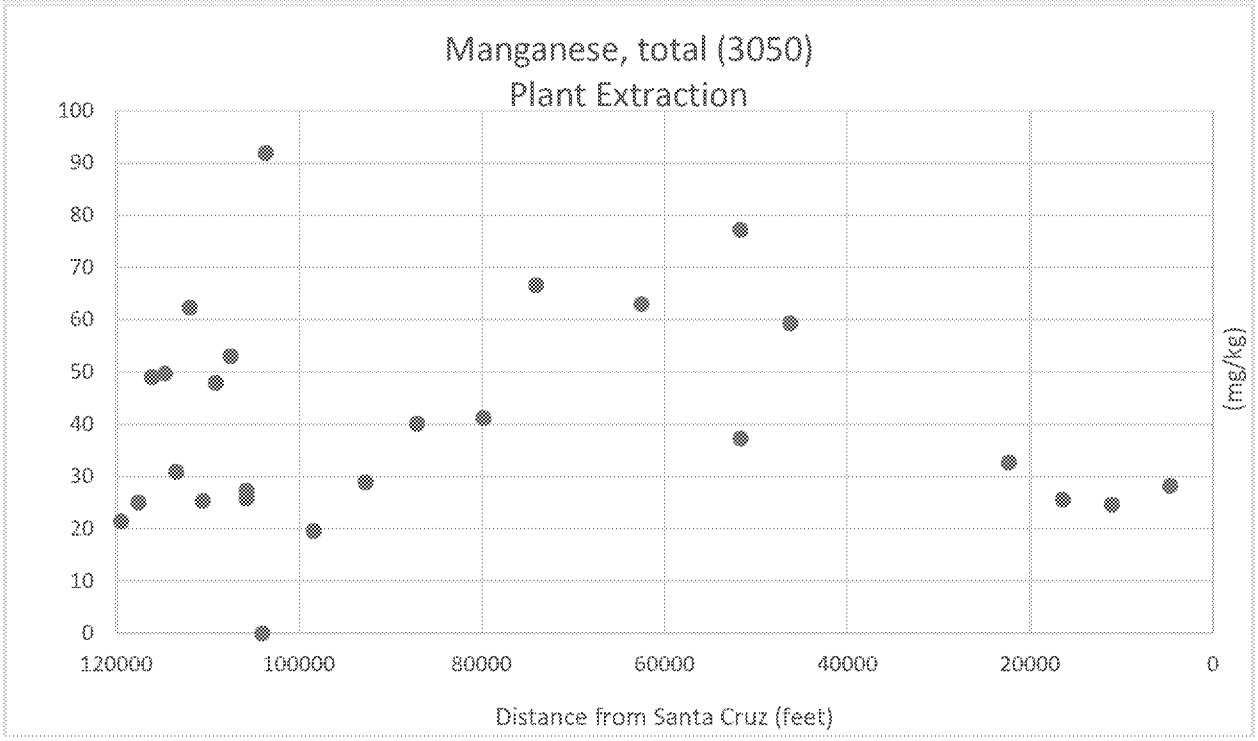

Calcium, total (3050)
Plant Extraction
30000
25000
20000
15000
10000
5000
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

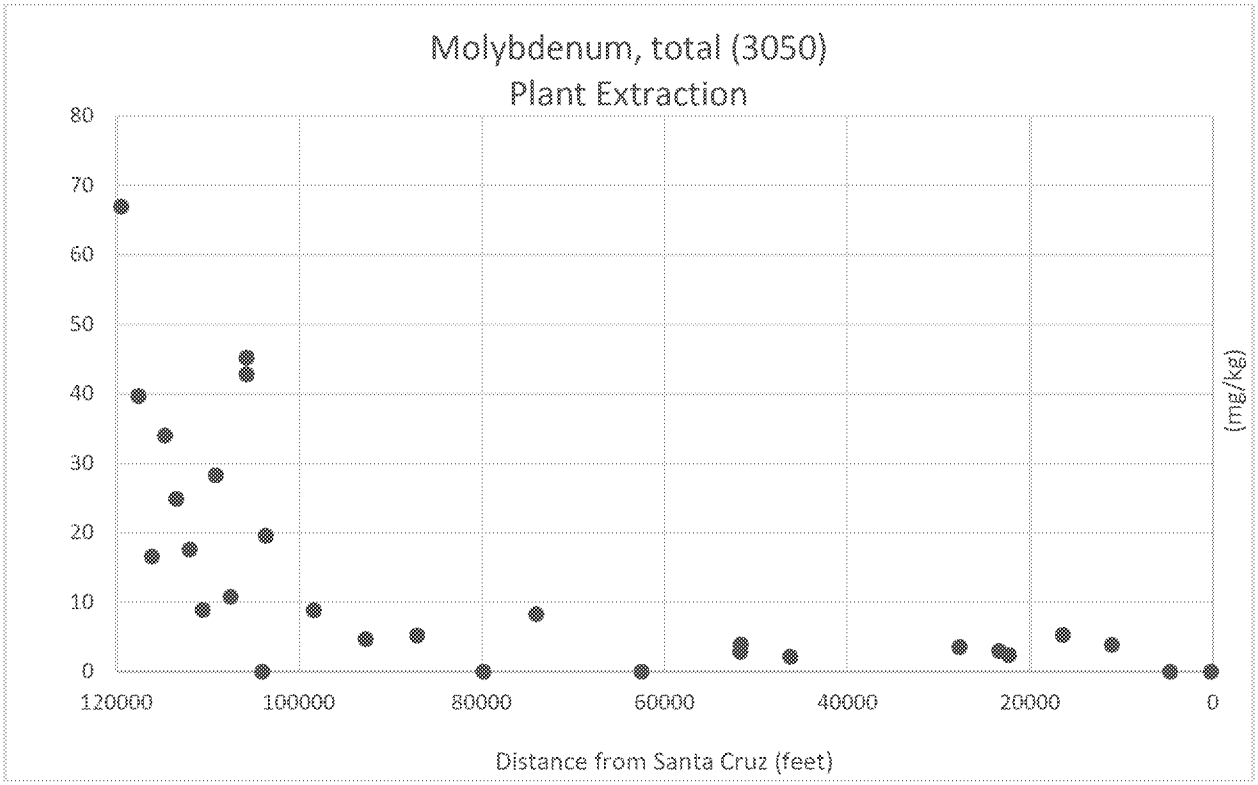

Copper, total (3050)
Plant Extraction
200
180
160
140
120
100
80
60
40
20
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

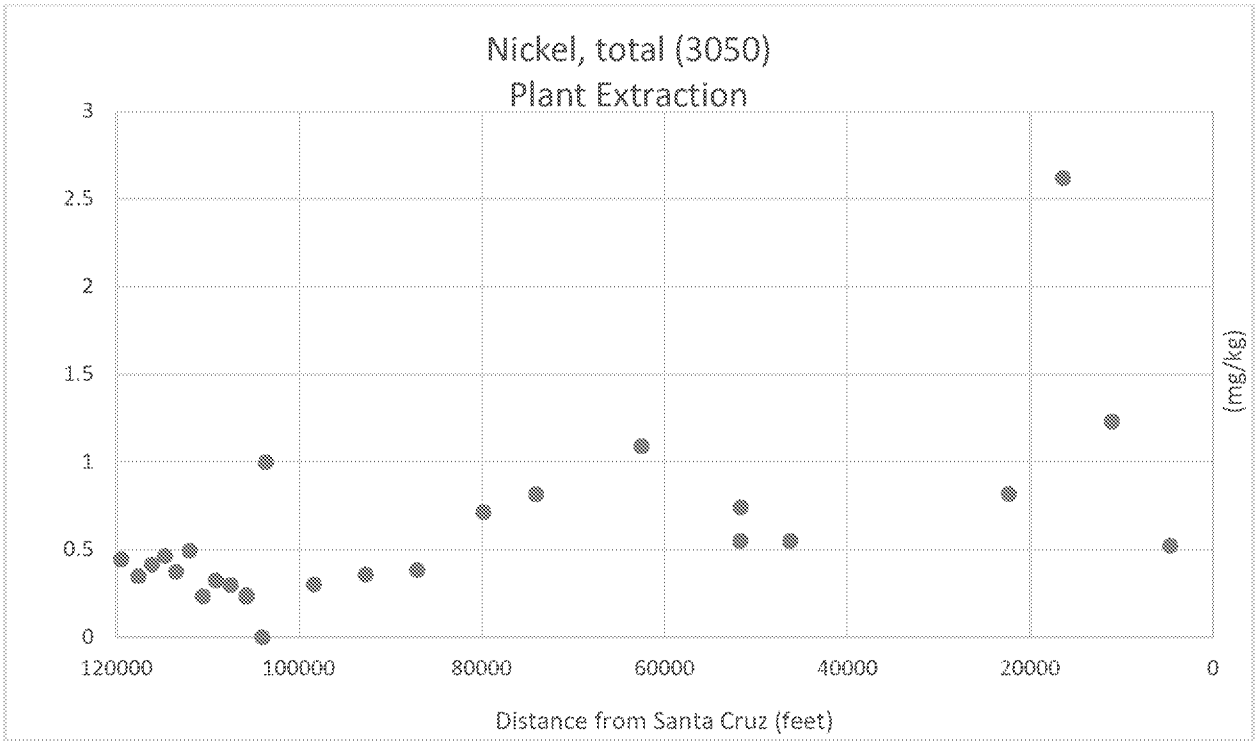

Iron, total (3050)
Plant Extraction
300
250
200
150
100
50
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

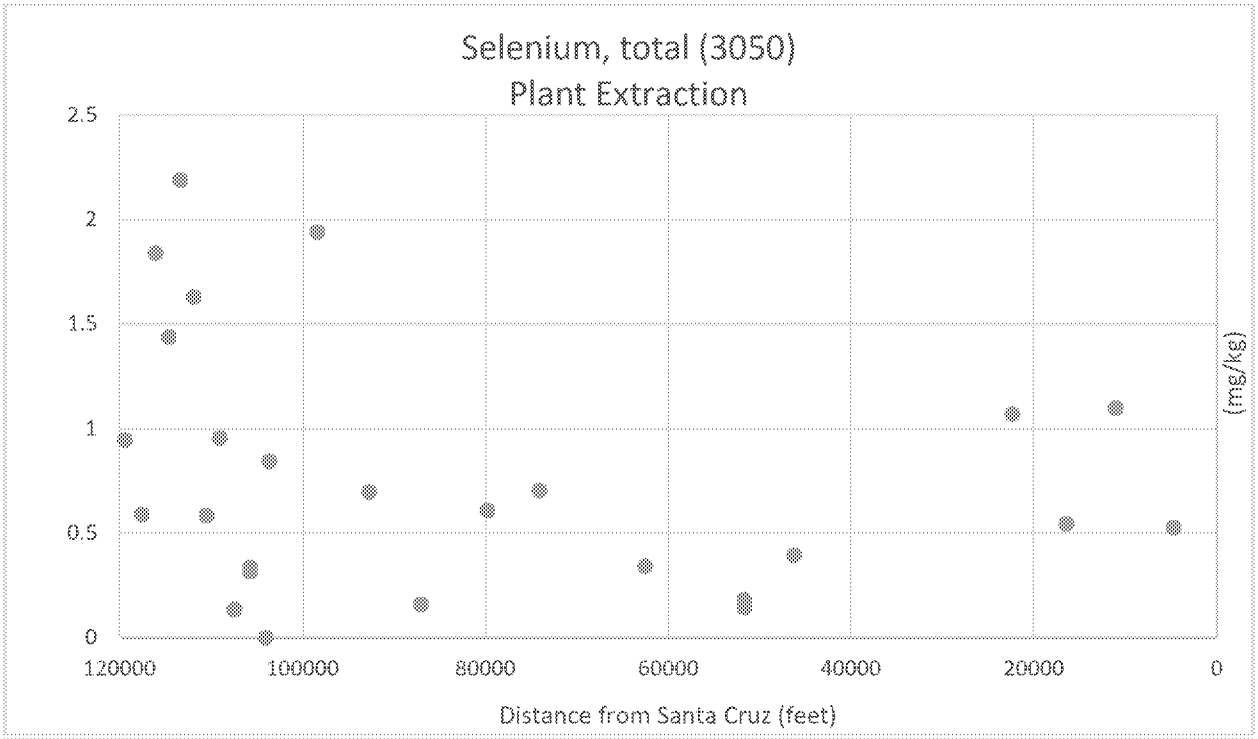

Lead, total (3050)
Plant Extraction
0.6
0.5
0.4
0.3
0.2
0.1
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

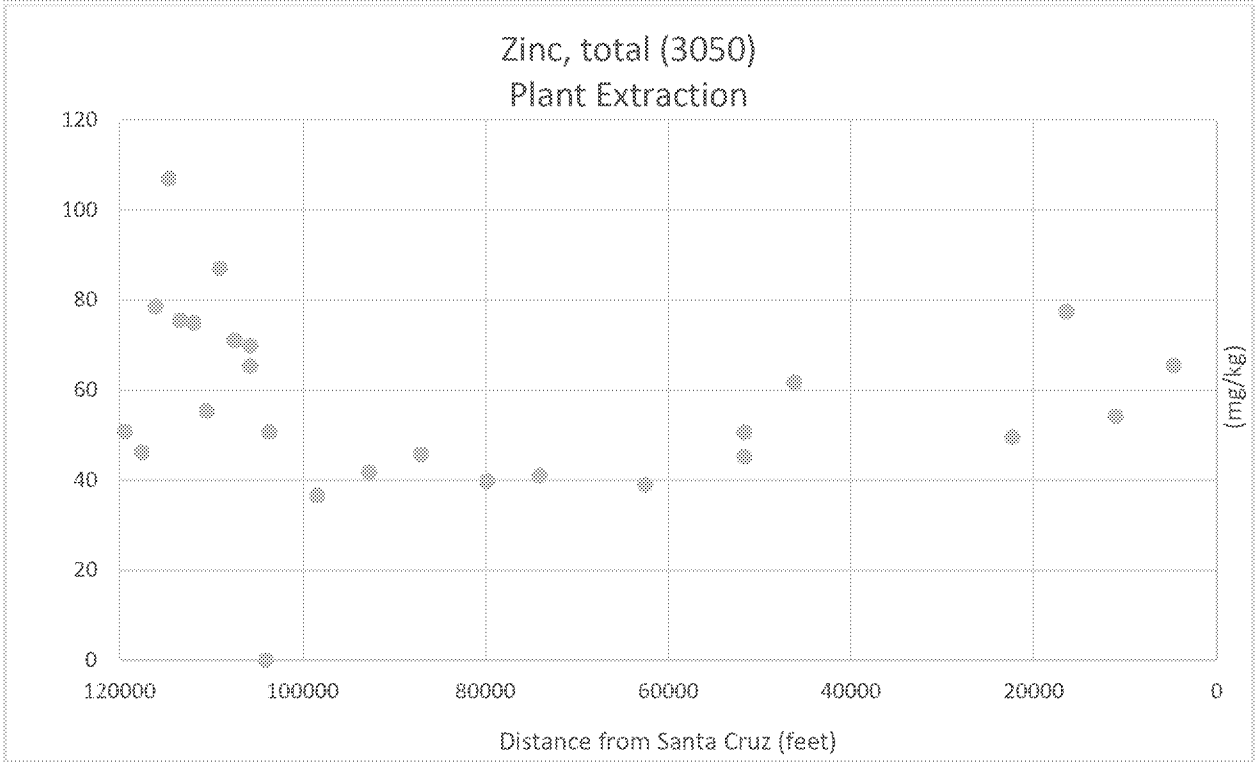

Magnesium, total (3050)
Plant Extraction
4500
4000
3500
3000
2500
2000
1500
1000
500
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)


Manganese, total (3050)
Plant Extraction
100
90
80
70
60
50
40
30
20
10
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)


Molybdenum, total (3050)
Plant Extraction
80
70
60
50
40
30
20
10
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

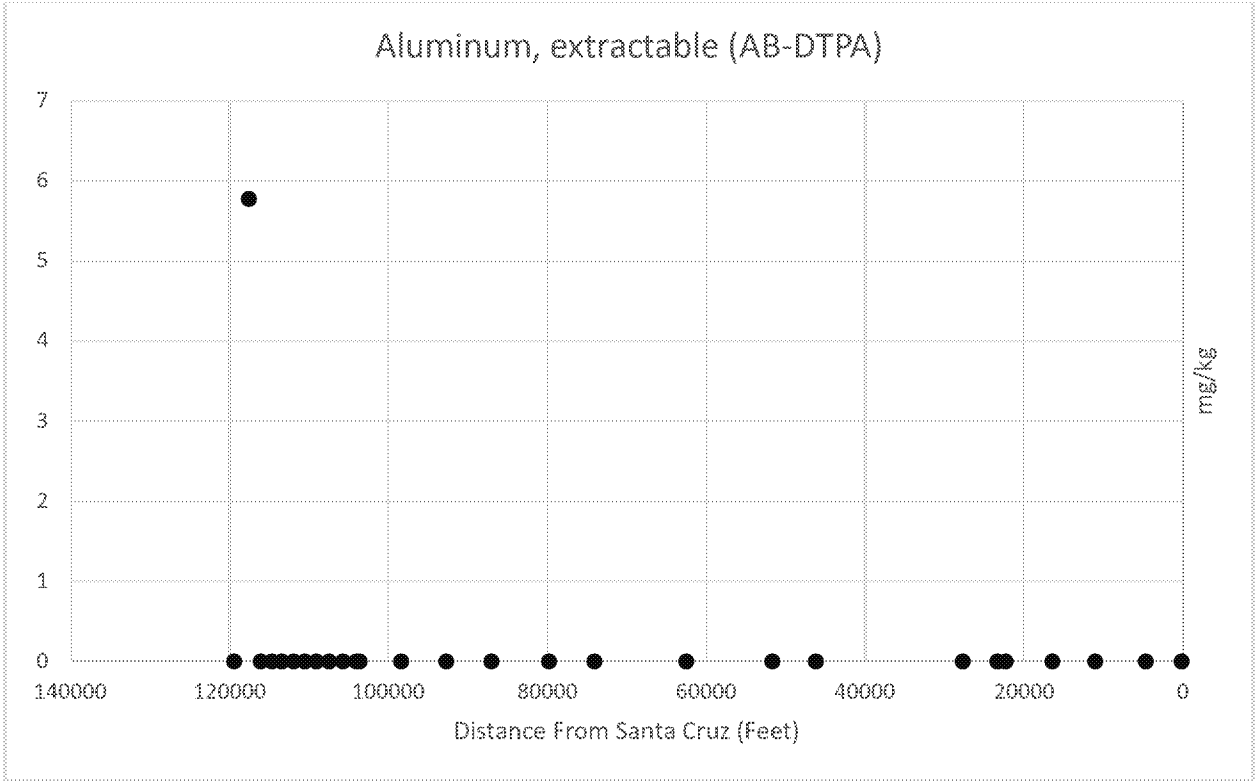

Nickel, total (3050)
Plant Extraction
3
2.5
2
1.5
1
0.5
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

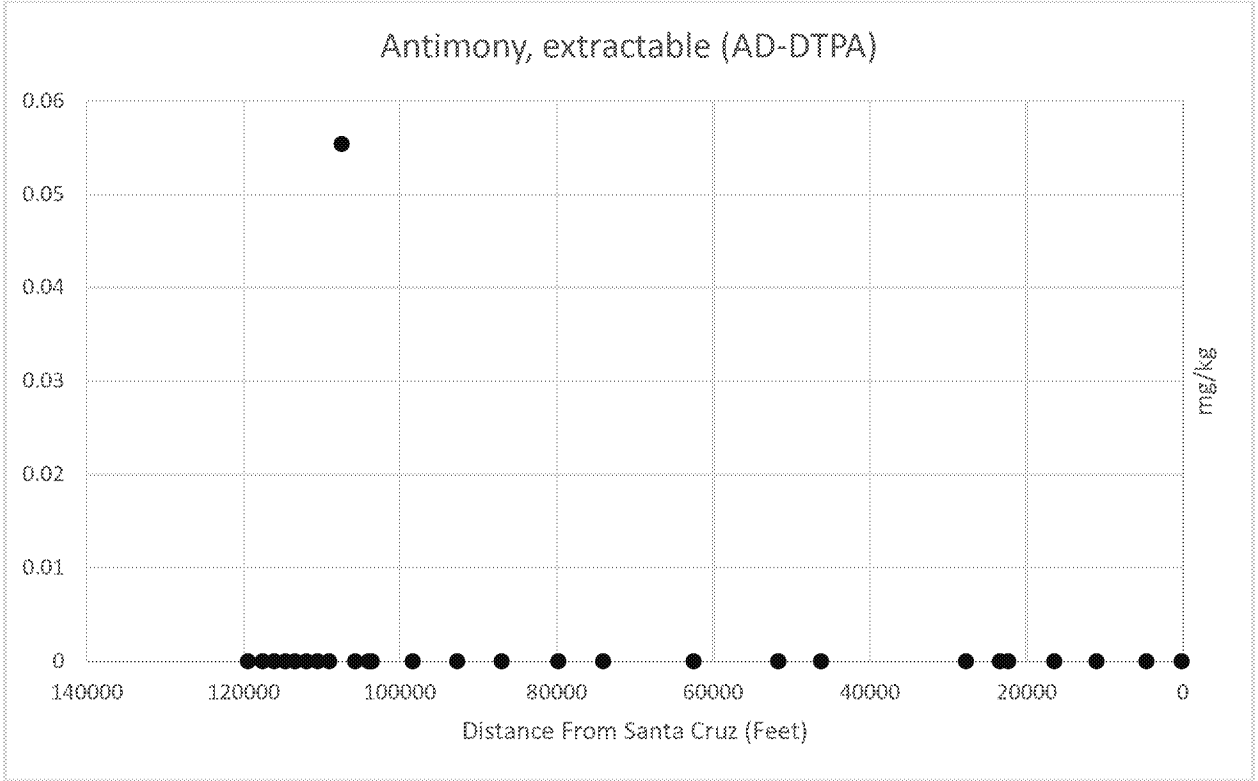

Selenium, total (3050)
Plant Extraction
2.5
2
1.5
1
0.5
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

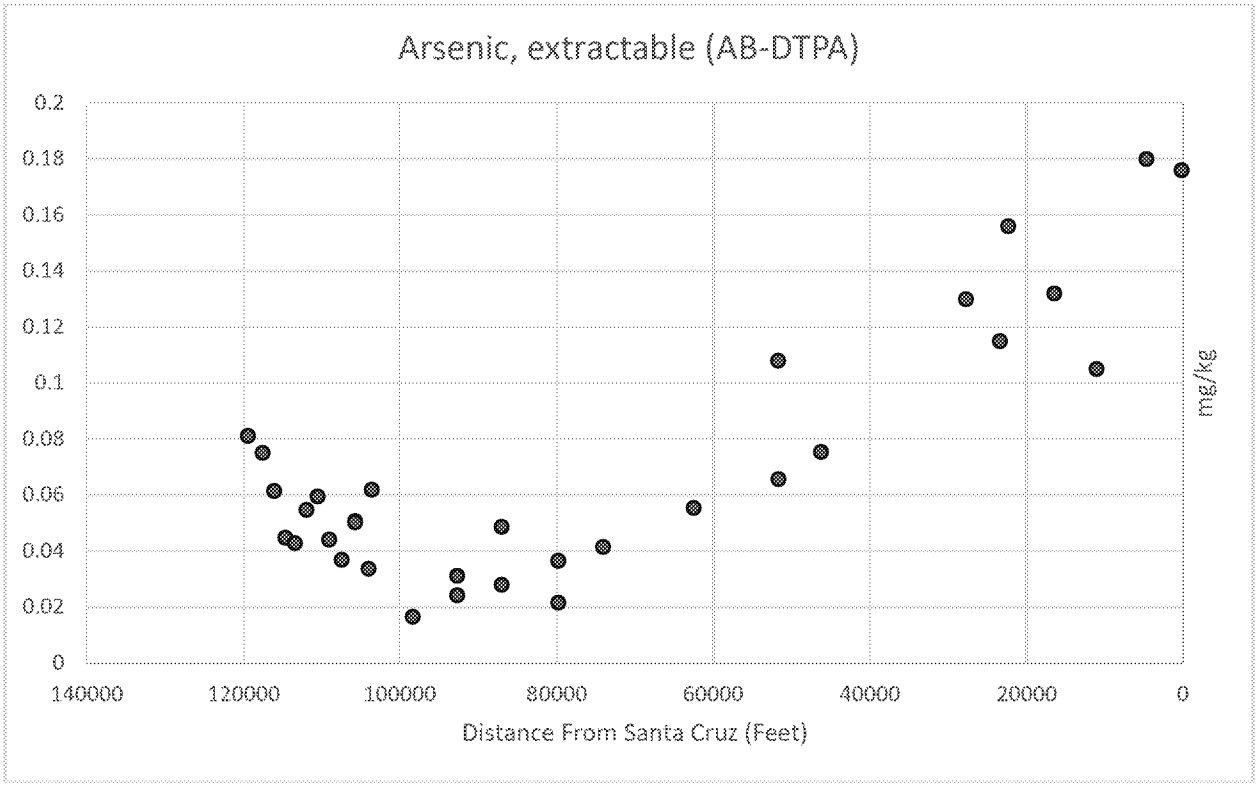

Zinc, total (3050)
Plant Extraction
120
100
80
60
40
20
0
120000
100000
80000
60000
40000
20000
0
(mg/kg)
Distance from Santa Cruz (feet)

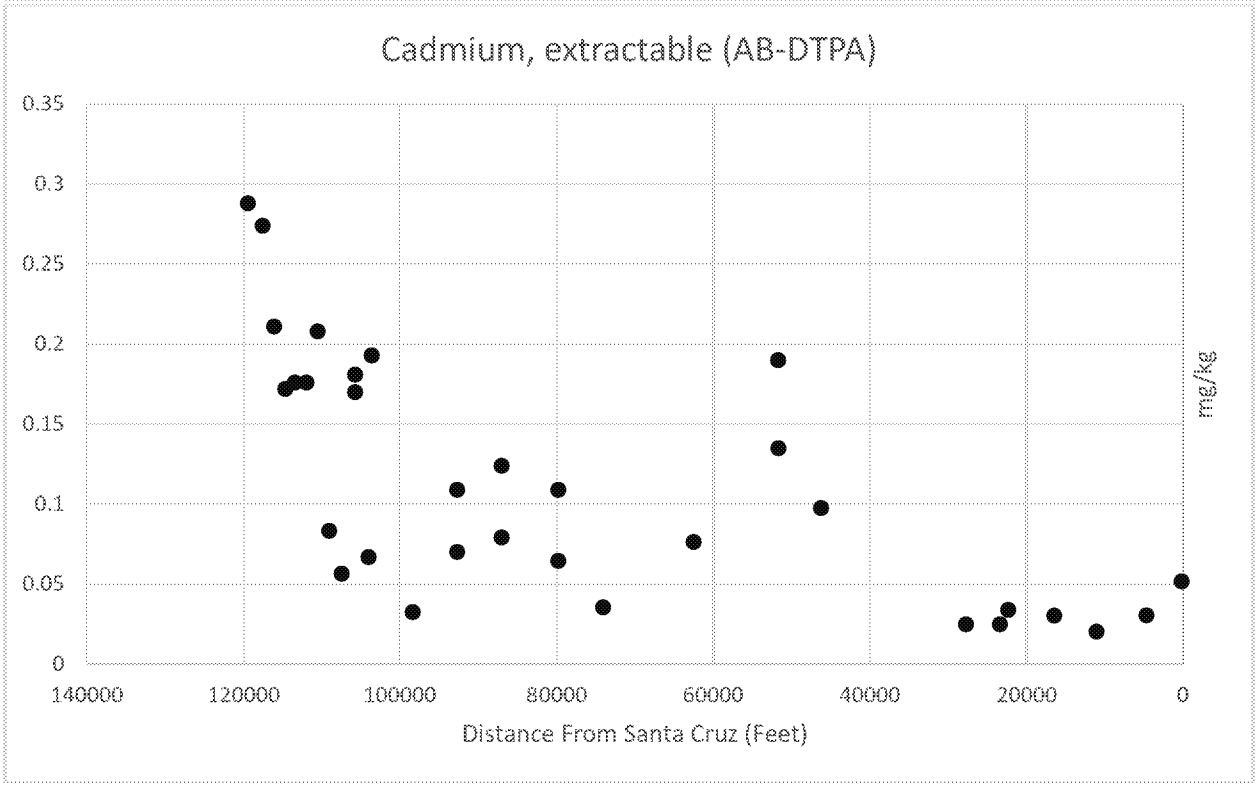
Soil Samples
Taken Under Tree
Graphs

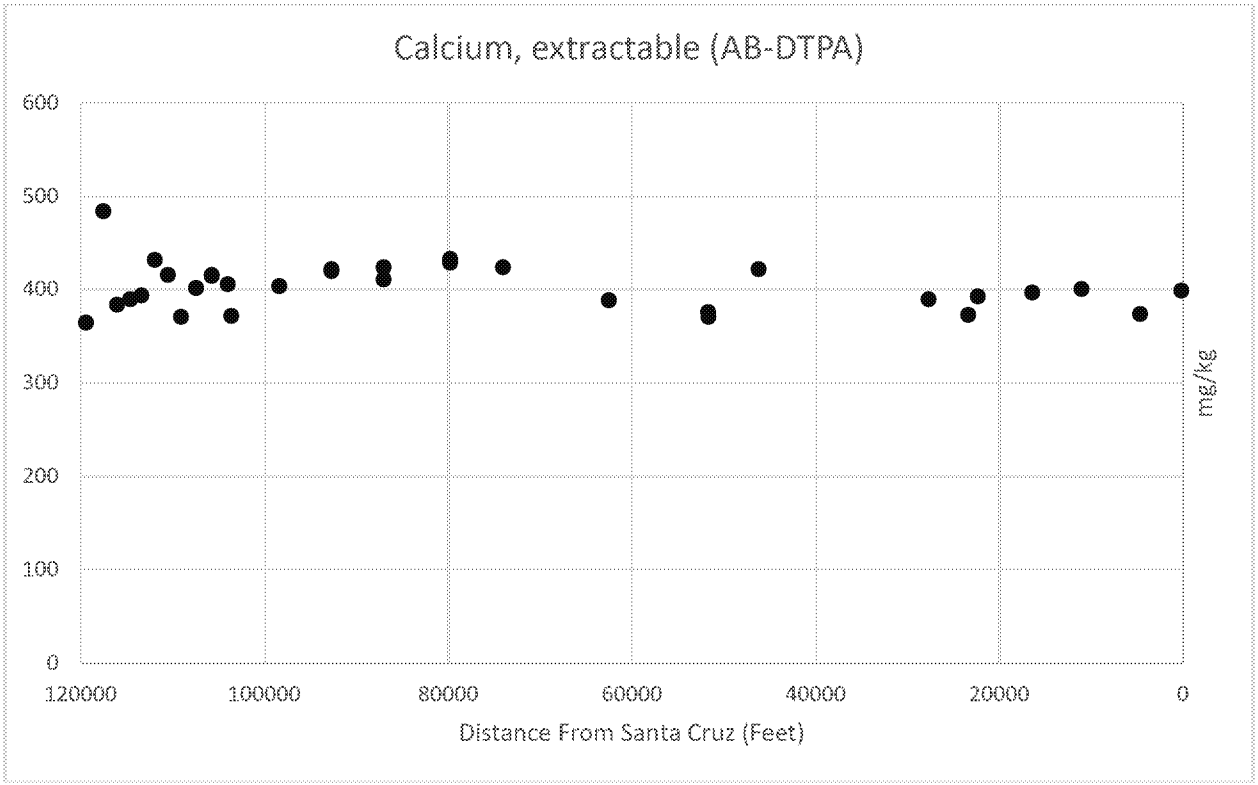
AB-DTPA (Plant Available)

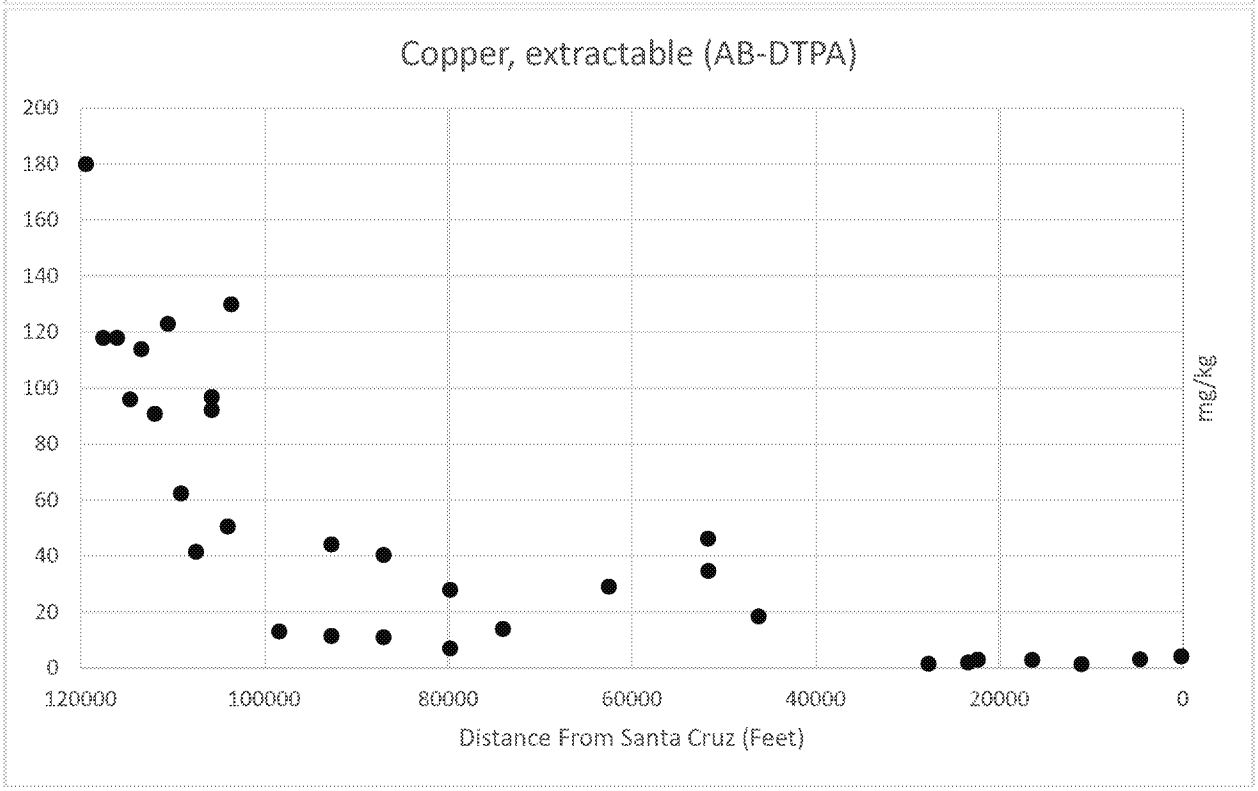


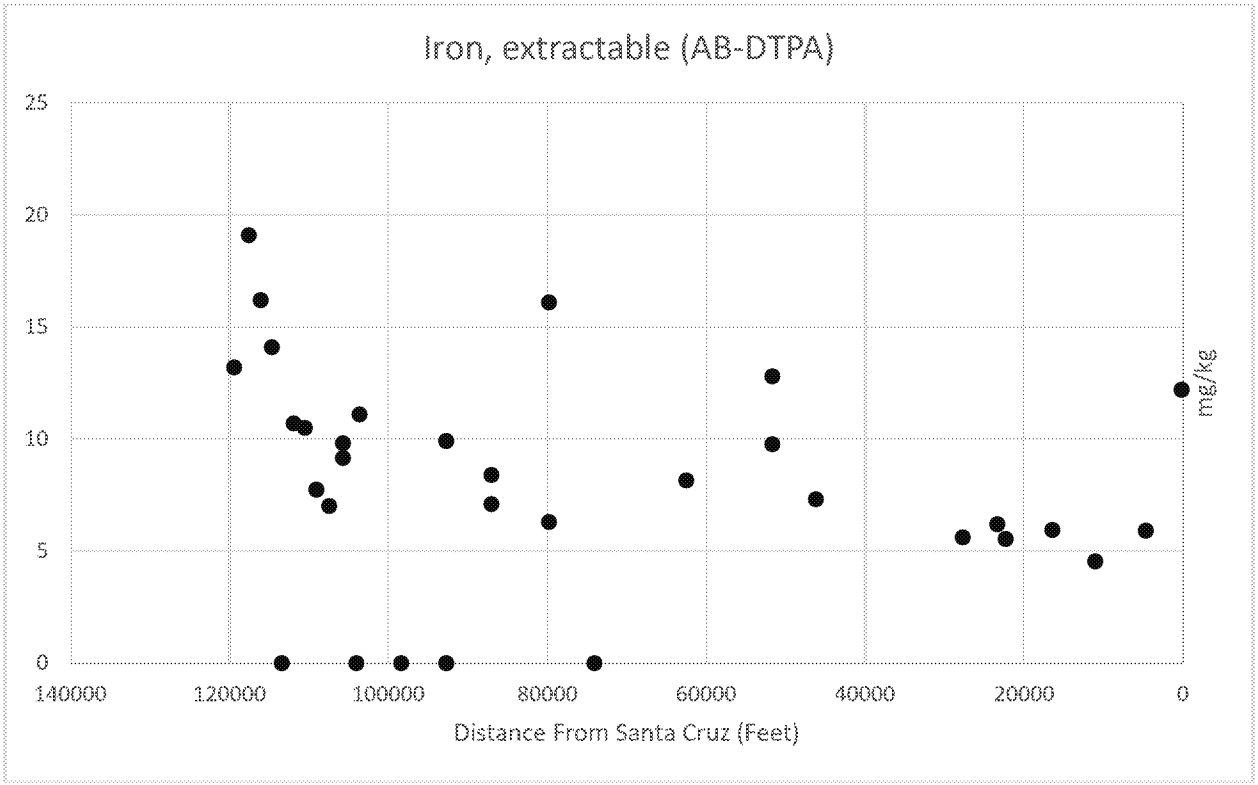


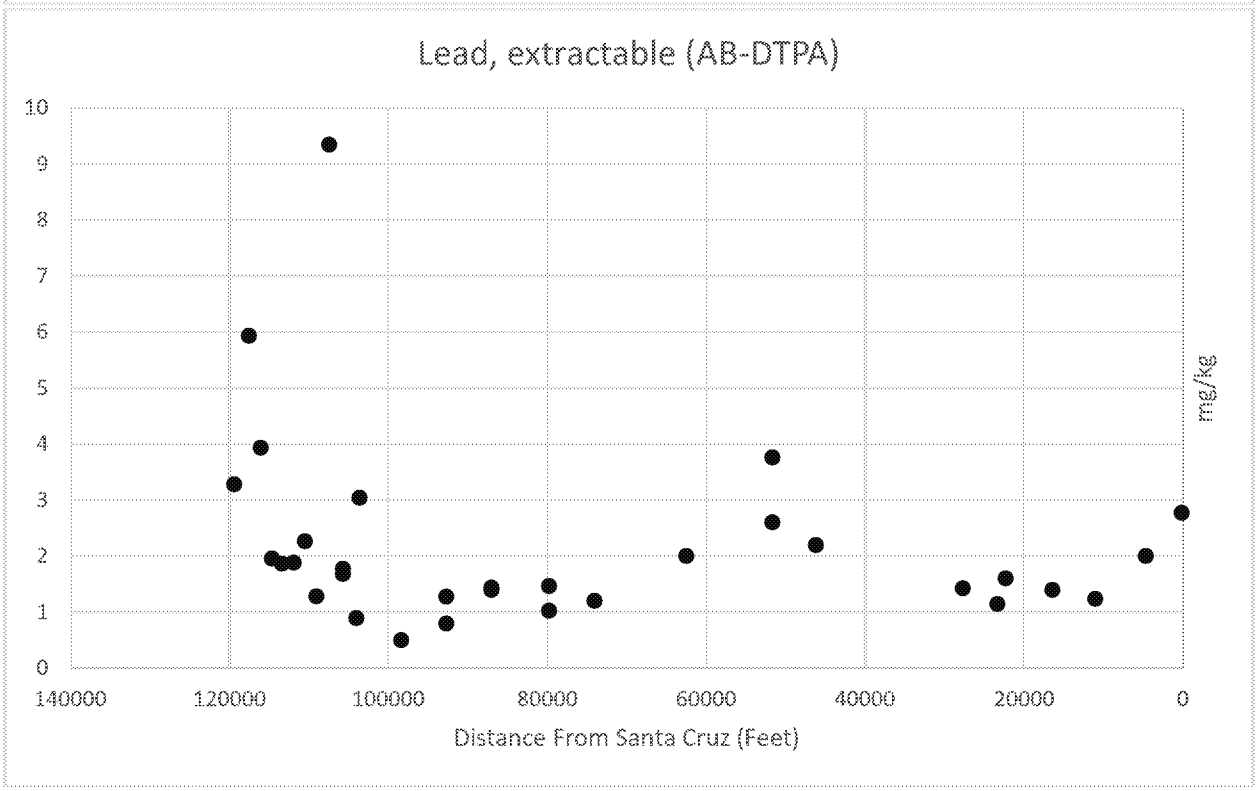

Arsenic, extractable (AB-DTPA)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

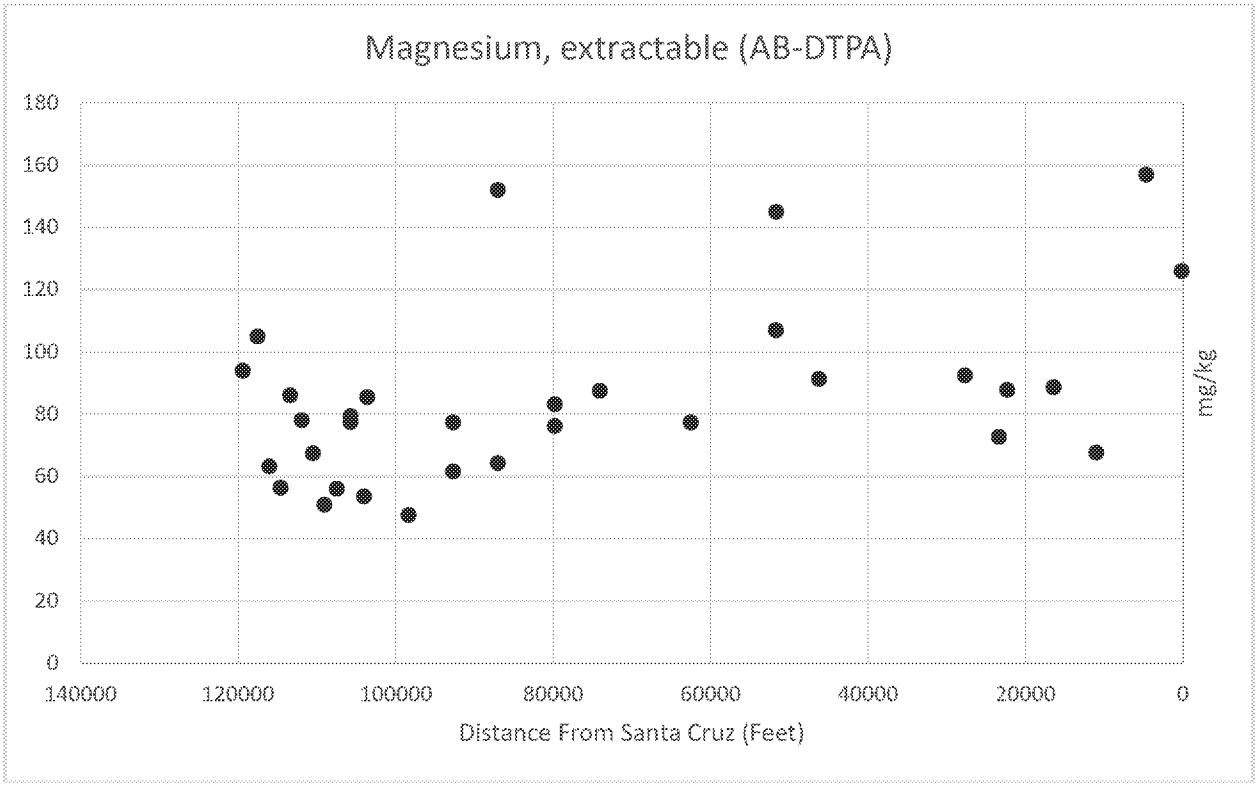

Cadmium, extractable (AB-DTPA)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

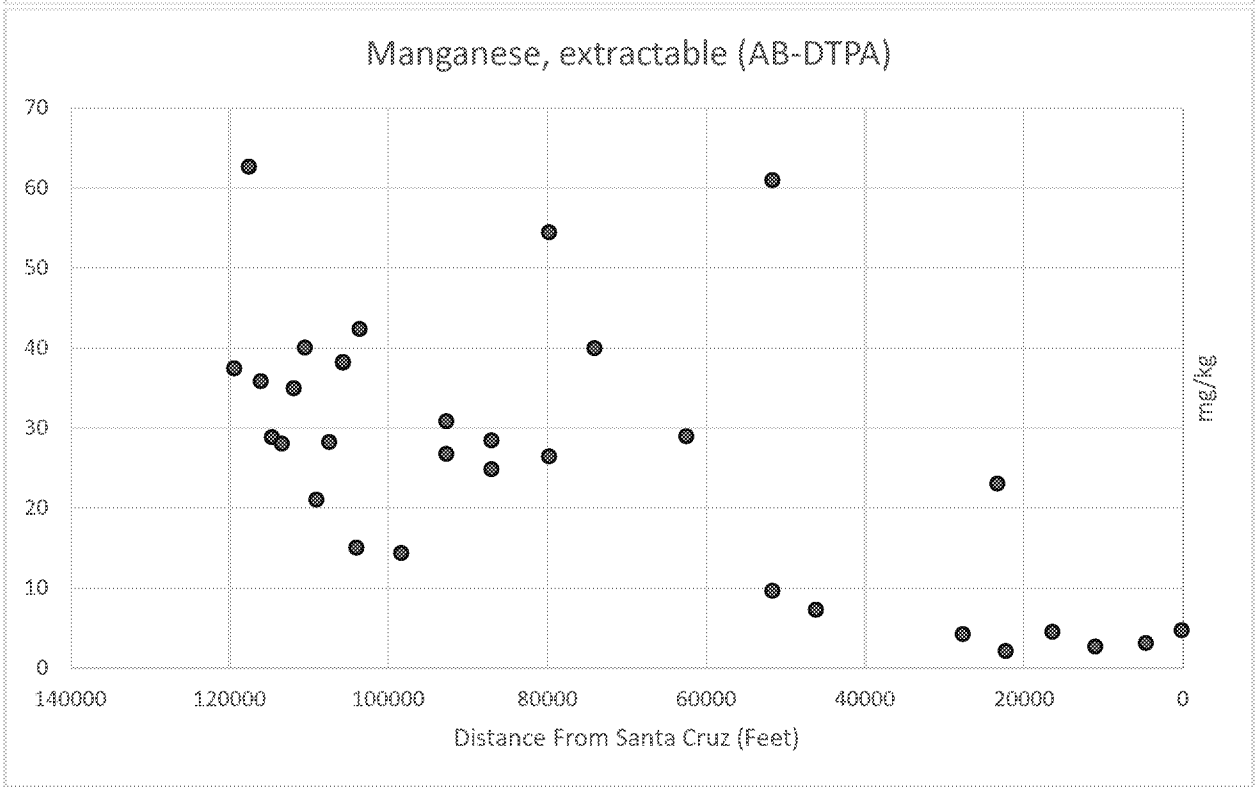

Calcium, extractable (AB-DTPA)
600
500
400
300
200
100
0
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

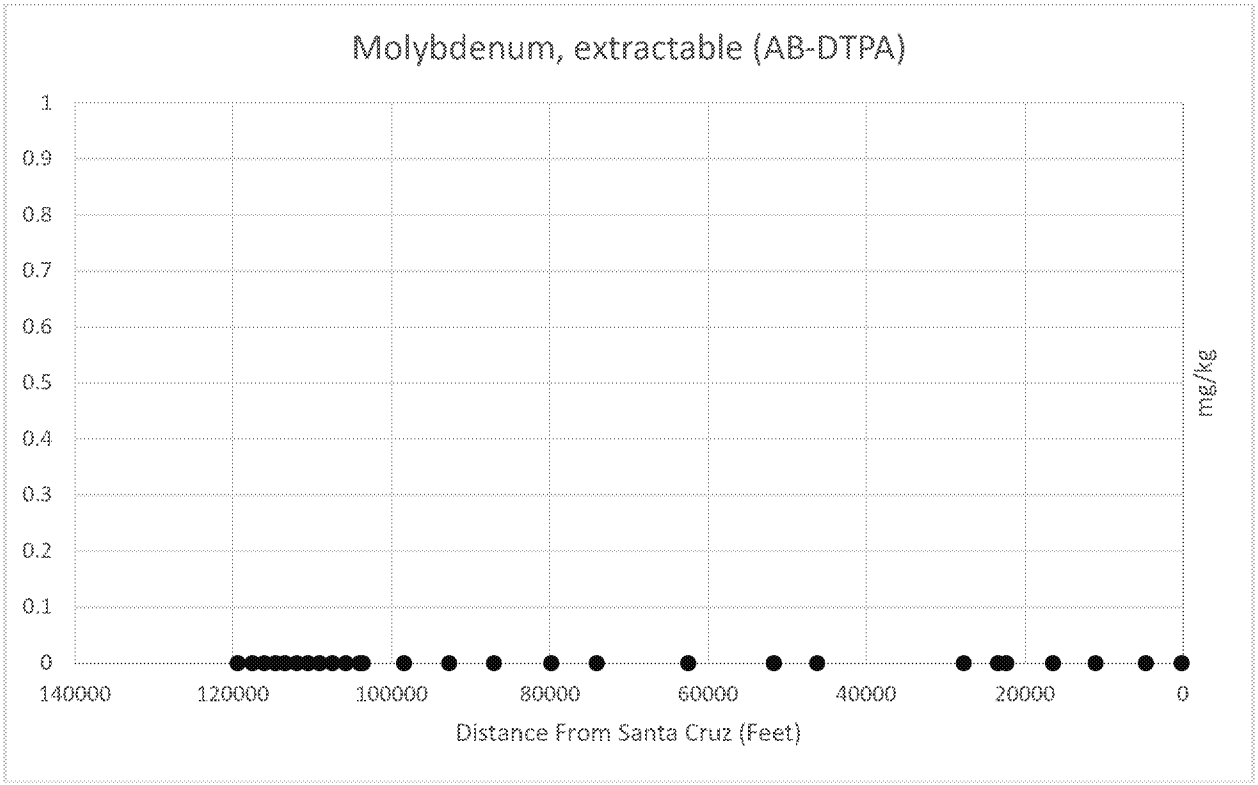

Copper, extractable (AB-DTPA)
200
180
160
140
120
100
80
60
40
20
0
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

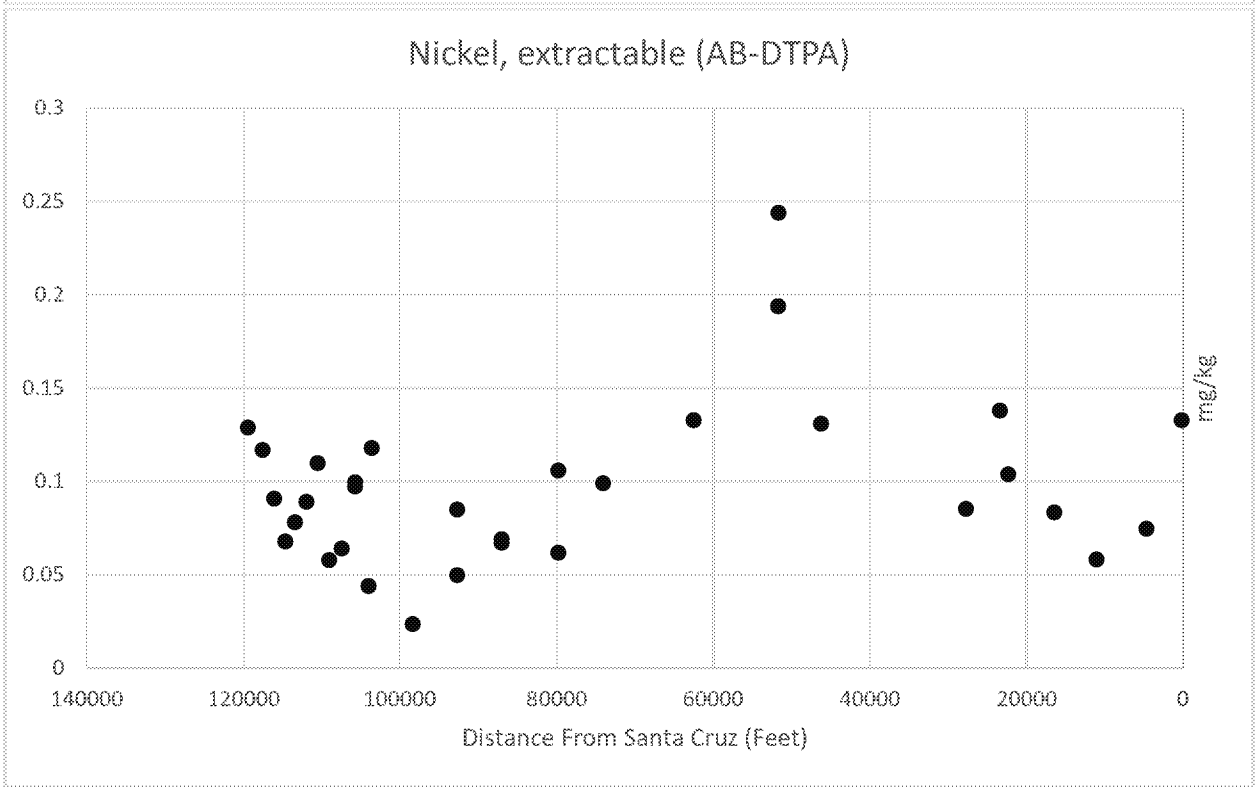

Iron, extractable (AB-DTPA)
25
20
15
10
5
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

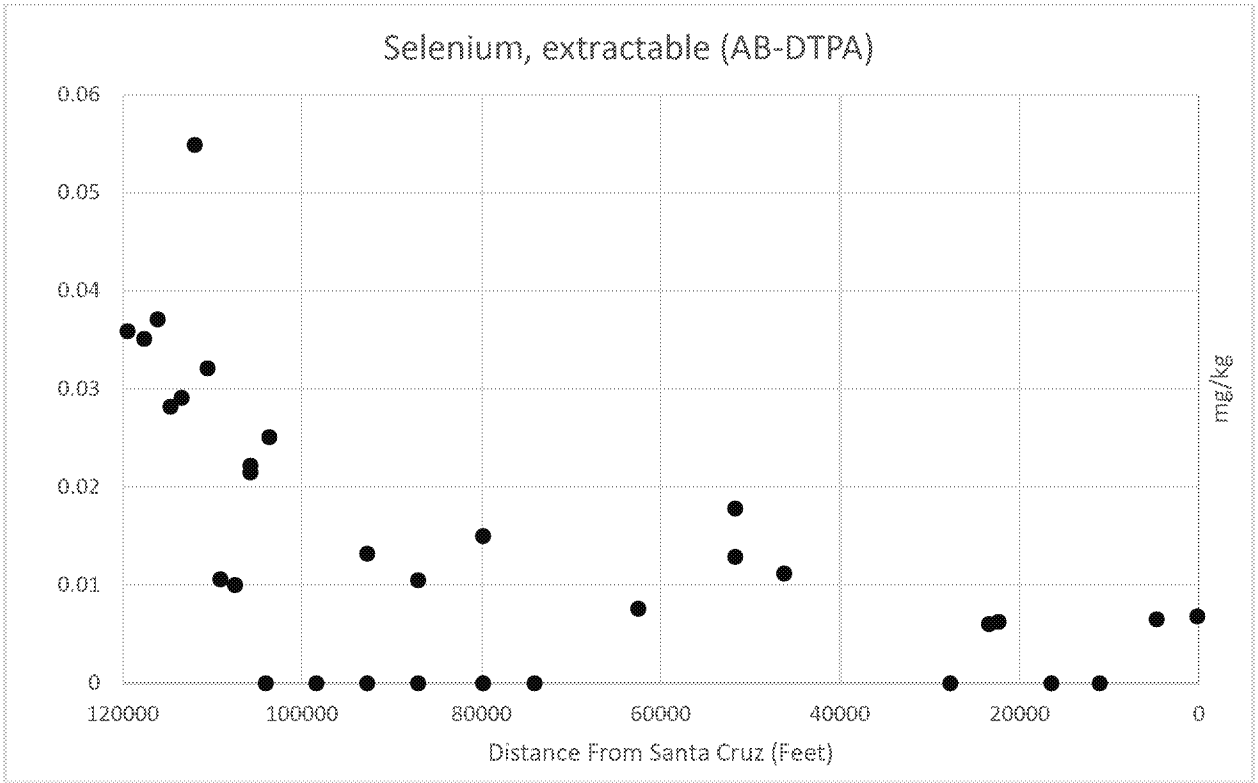

Lead, extractable (AB-DTPA)
10
9
8
7
6
5
4
3
2
1
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

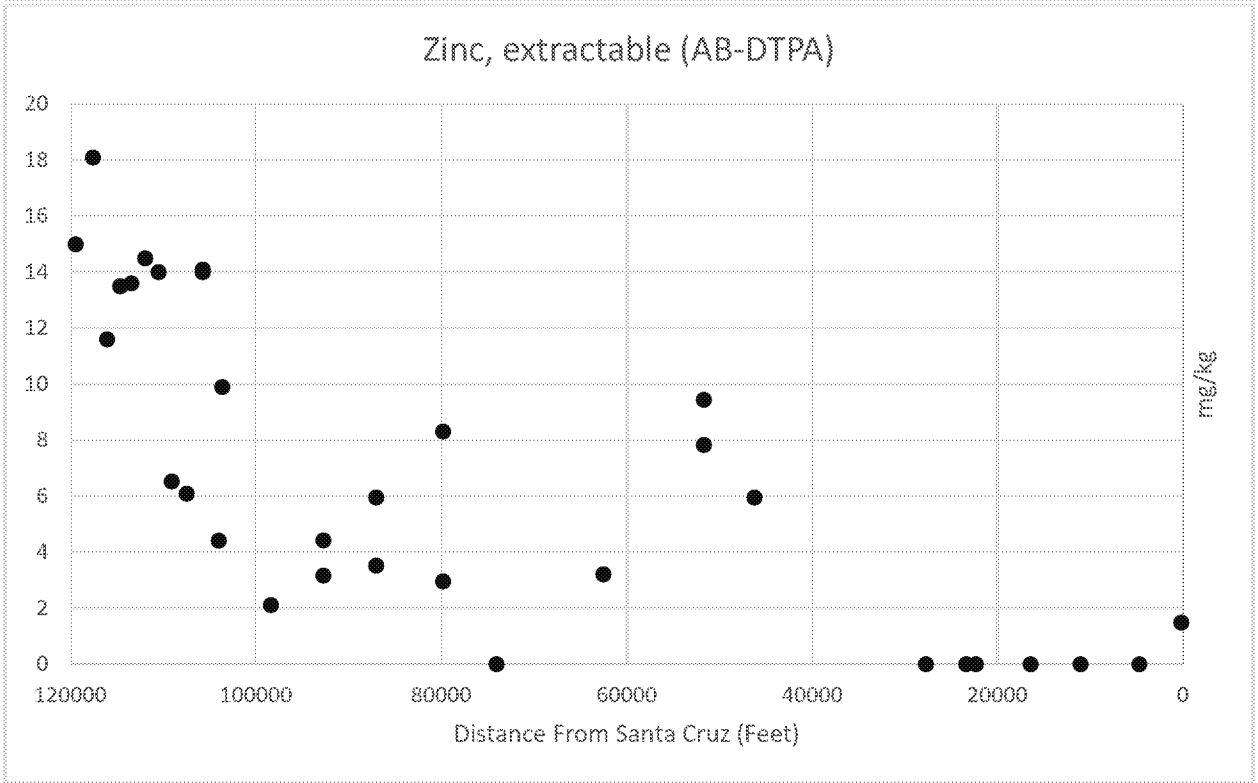

Magnesium, extractable (AB-DTPA)
180
160
140
120
100
80
60
40
20
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg


Manganese, extractable (AB-DTPA)
70
60
50
40
30
20
10
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

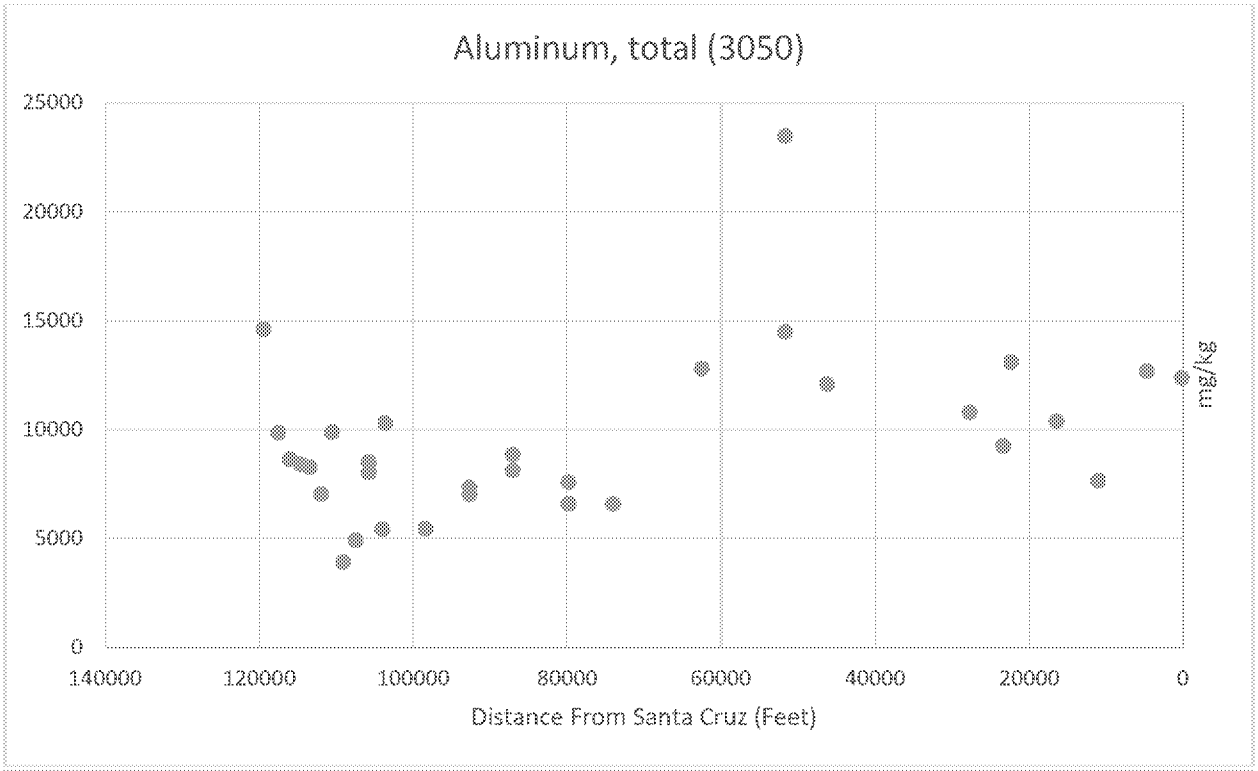

Molybdenum, extractable (AB-DTPA)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
mg/kg
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)

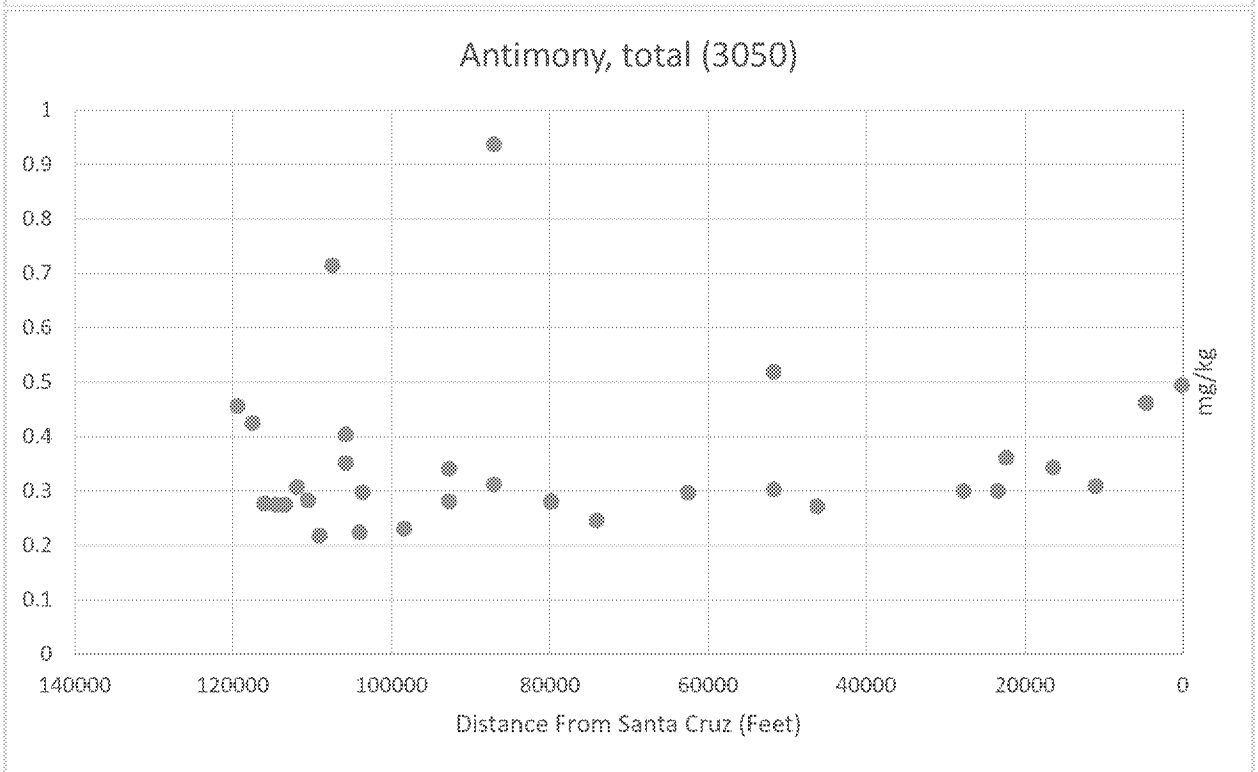

Nickel, extractable (AB-DTPA)
0.3
0.25
0.2
0.15
0.1
0.05
0
mg/kg
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)

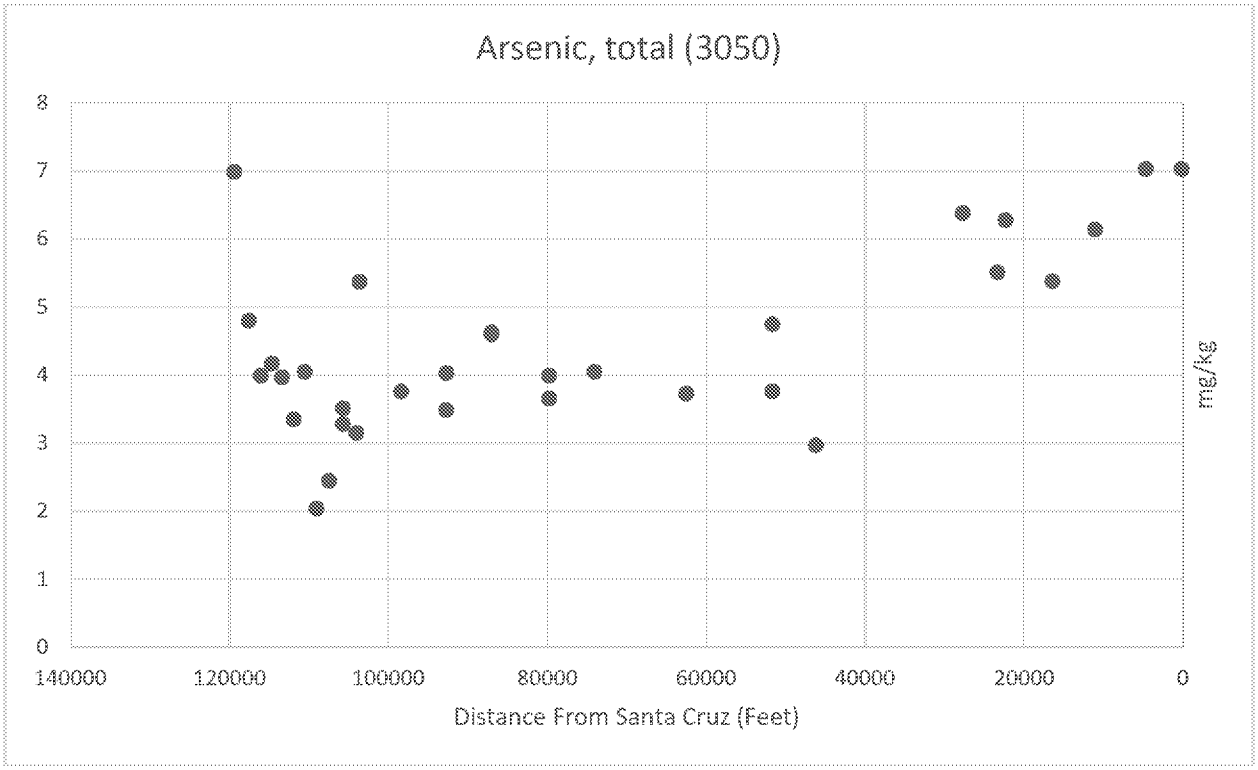

Selenium, extractable (AB-DTPA)
0.06
0.05
0.04
0.03
0.02
0.01
0
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

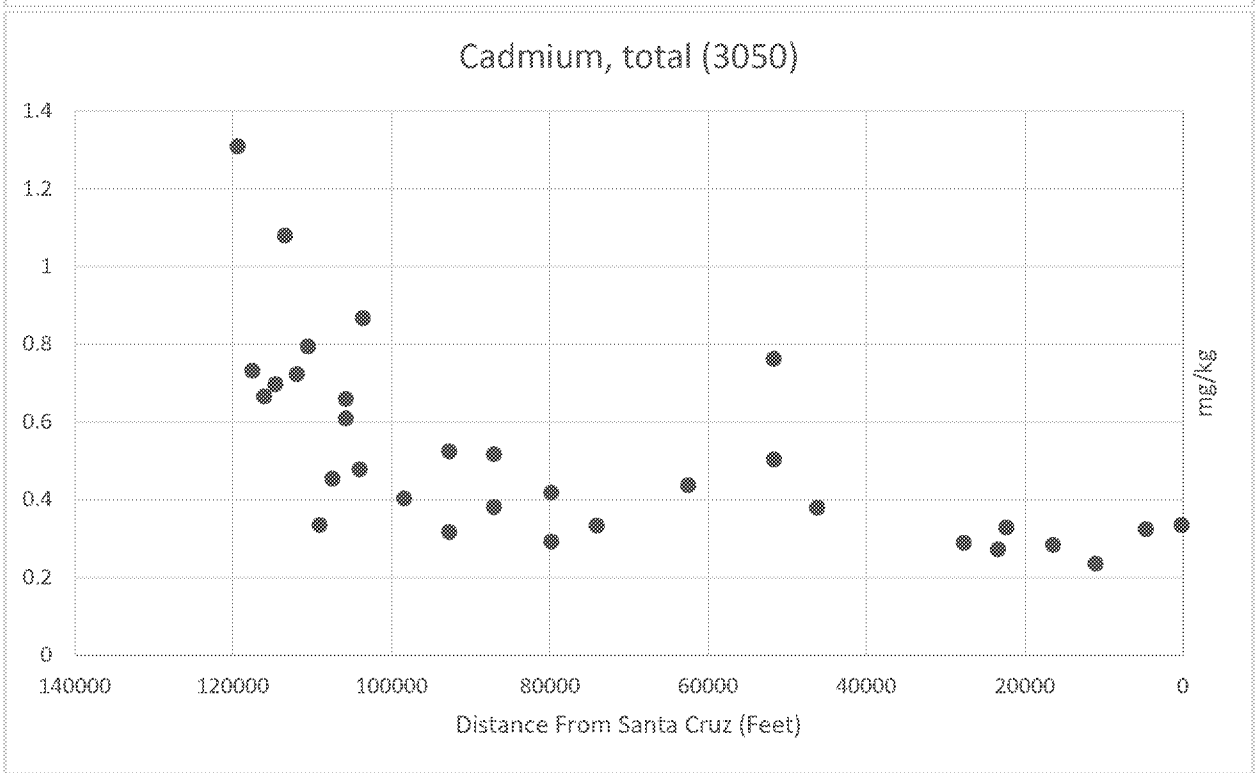

Zinc, extractable (AB-DTPA)
20
18
16
14
12
10
8
6
4
2
0
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

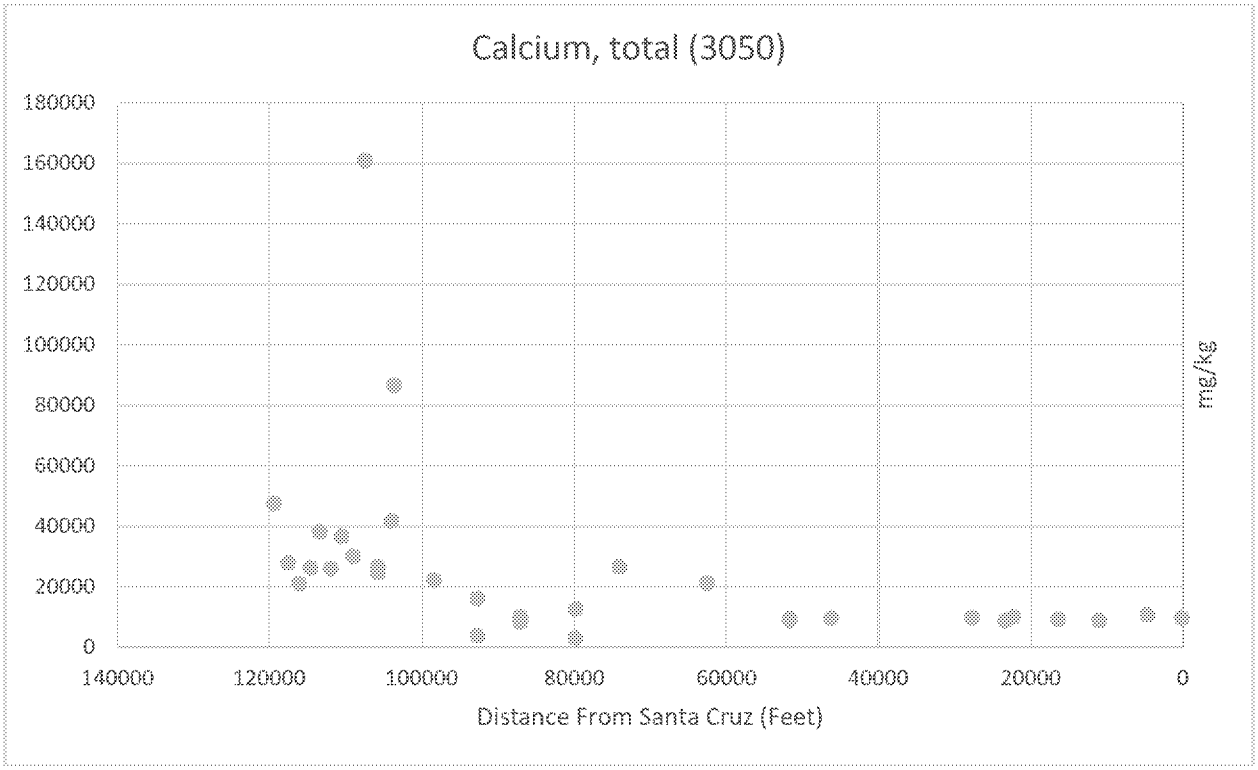
Total Digestion (Method 3050)

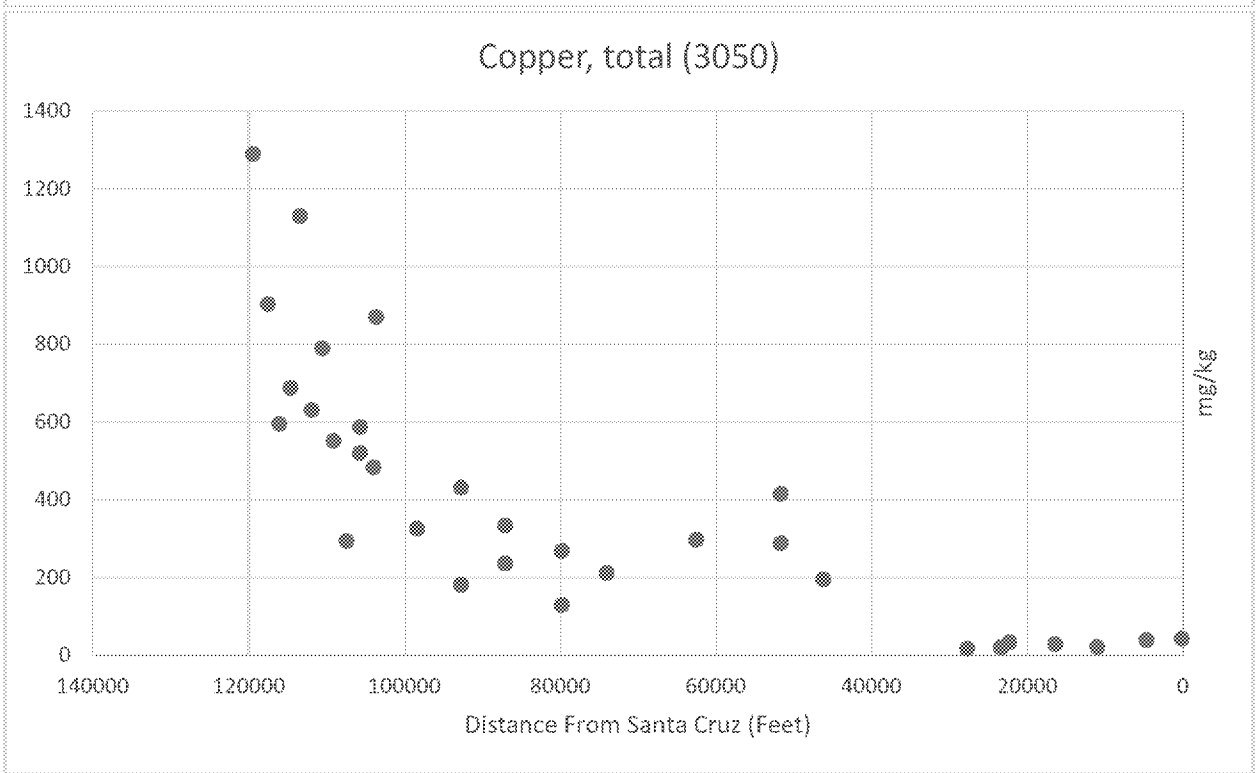


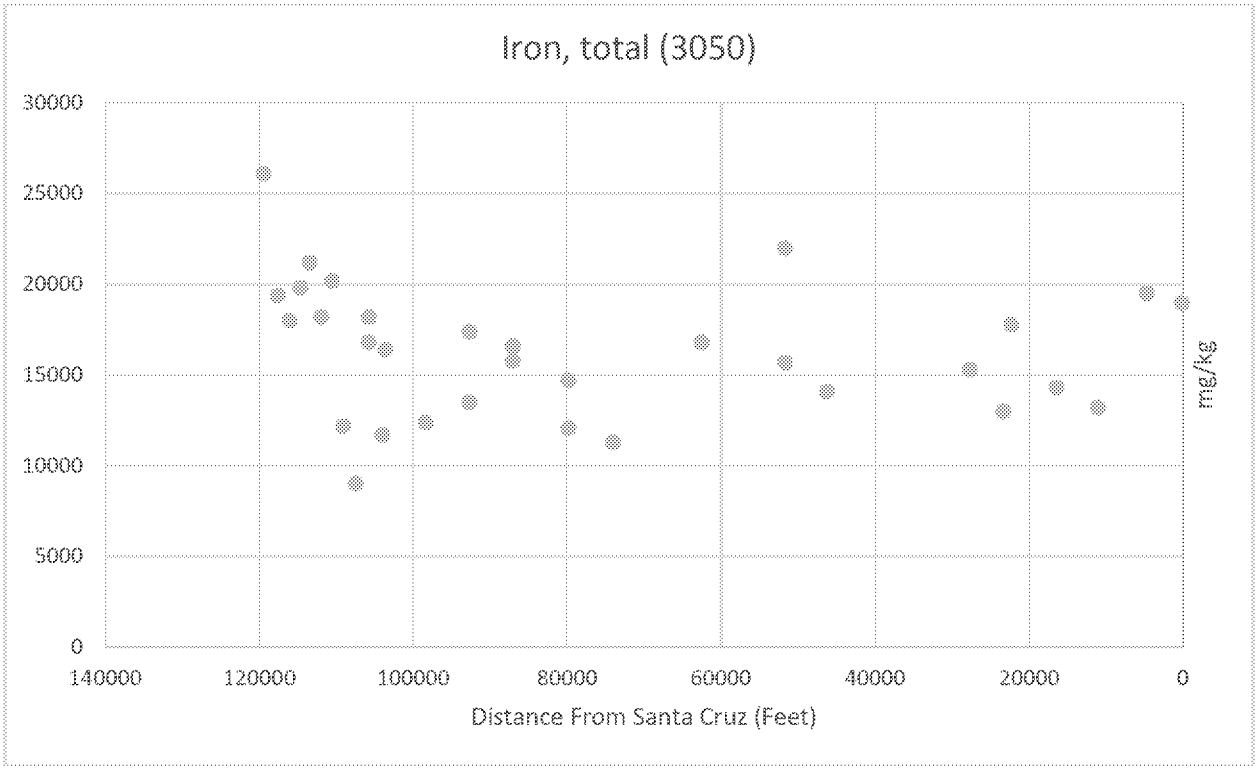


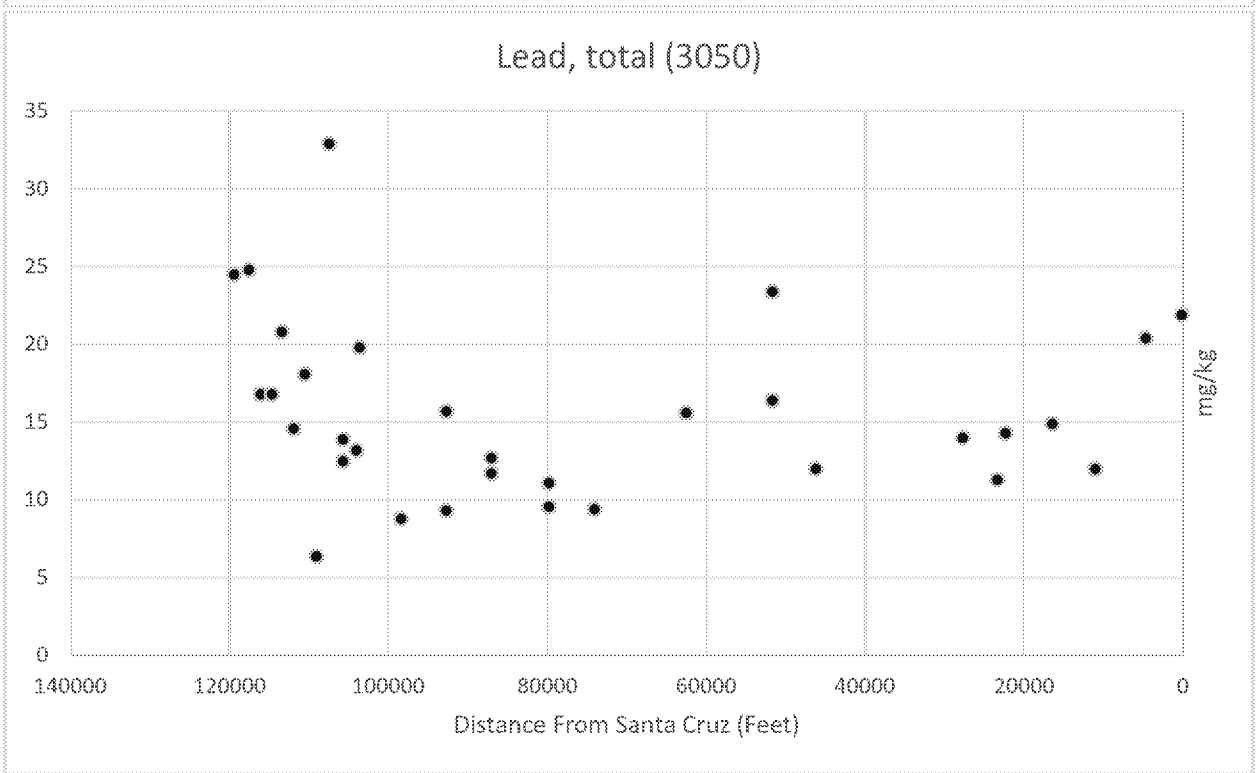

Arsenic, total (3050)
8
7
6
5
4
3
2
1
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

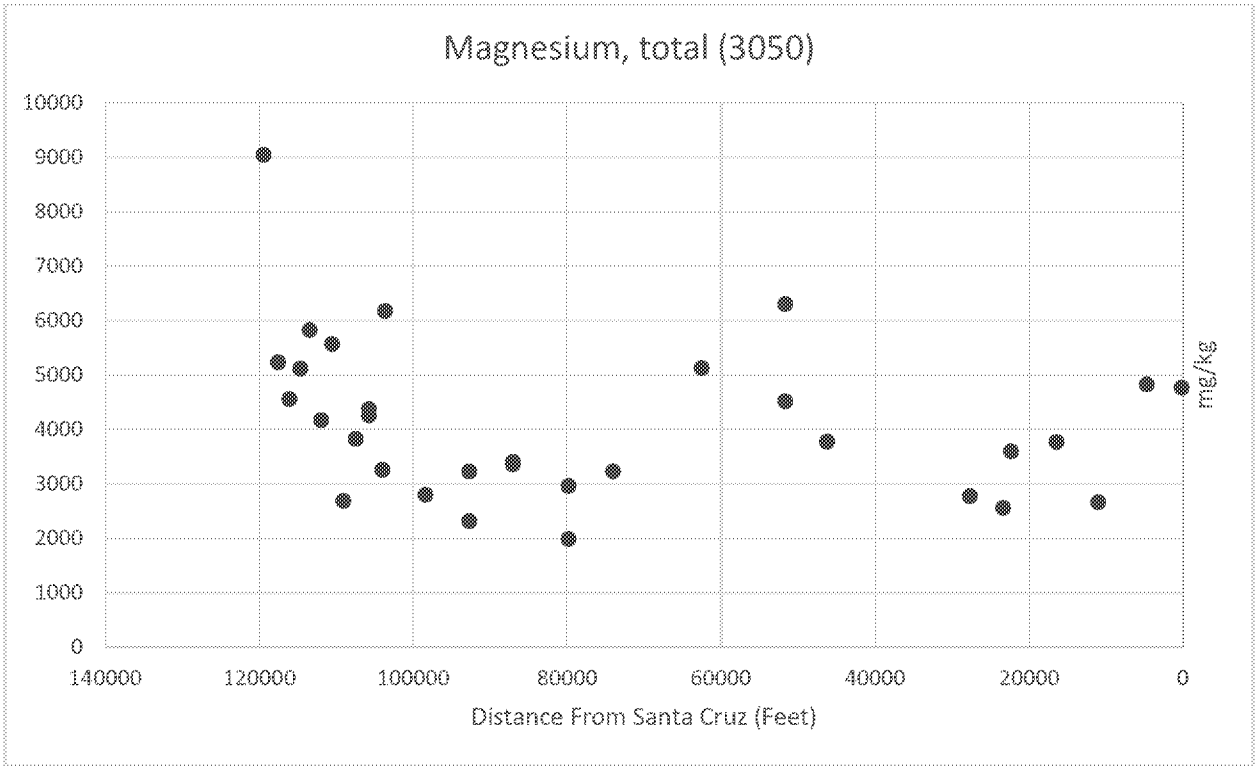

Cadmium, total (3050)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

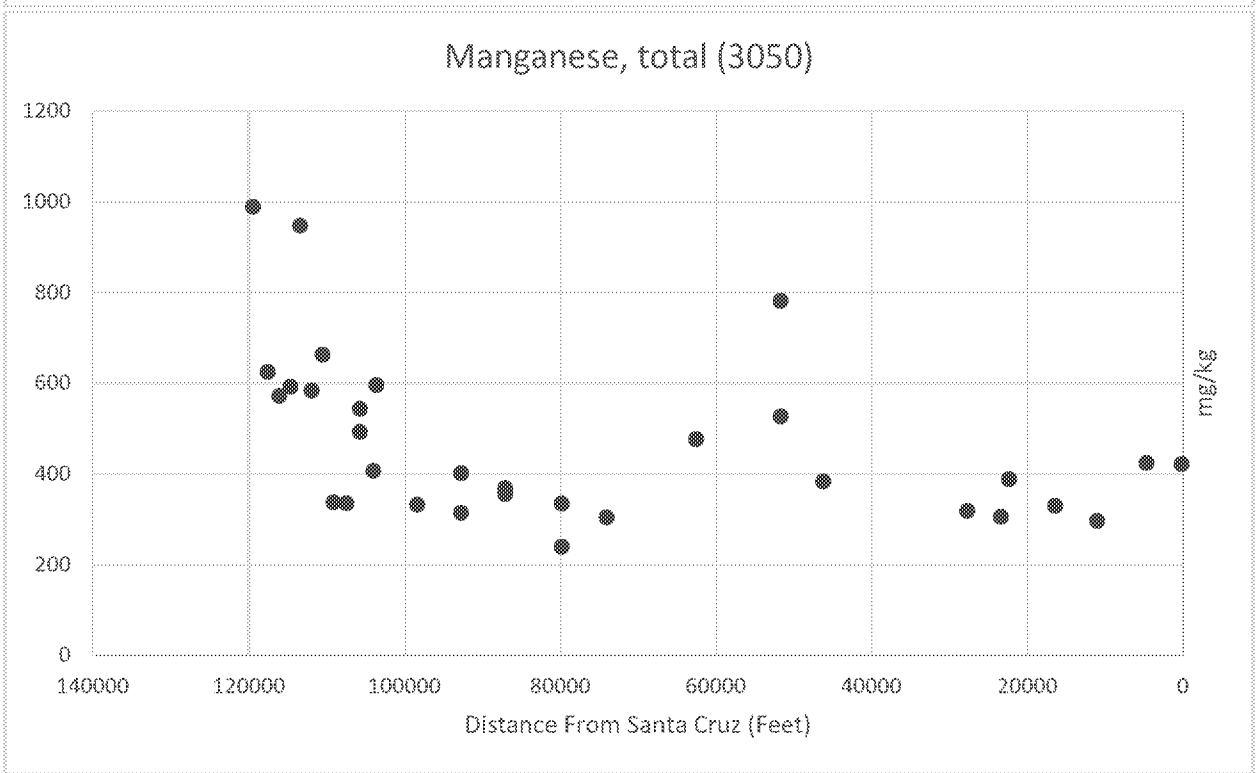

Calcium, total (3050)
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
mg/kg
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)

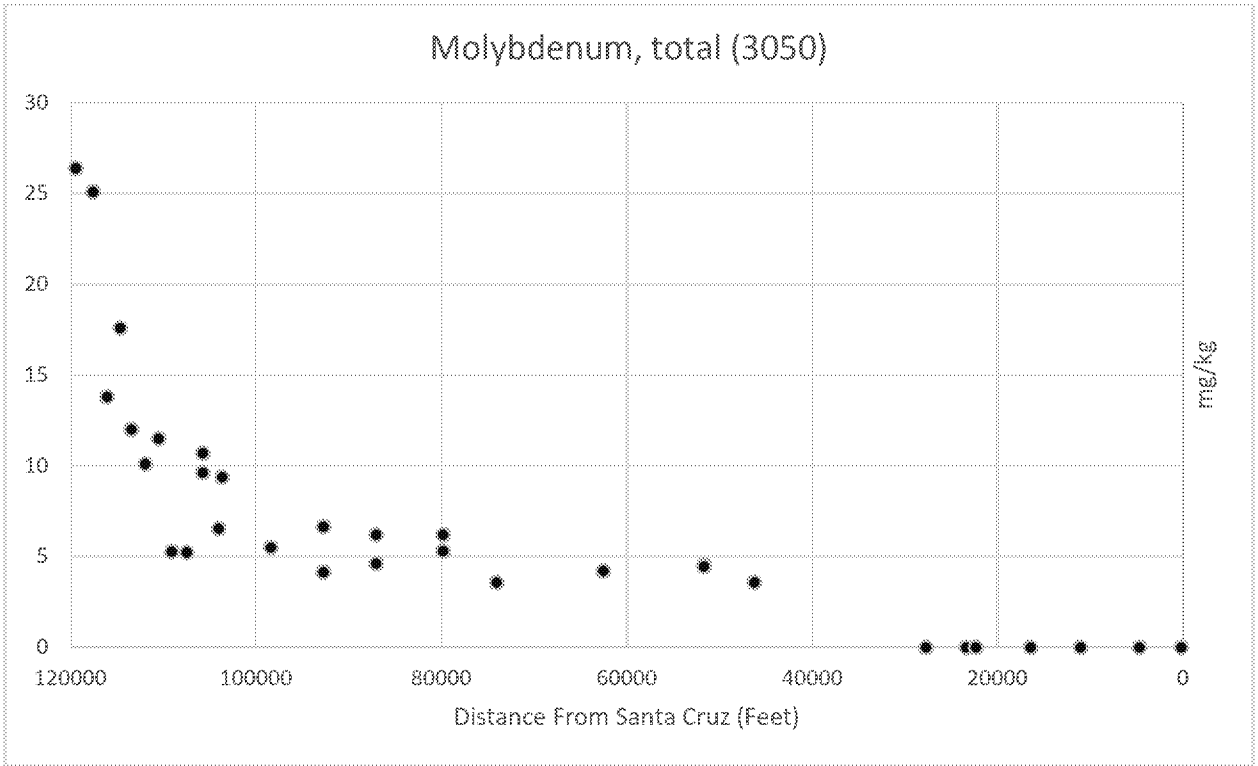

Copper, total (3050)
1400
1200
1000
800
600
400
200
0
mg/kg
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)

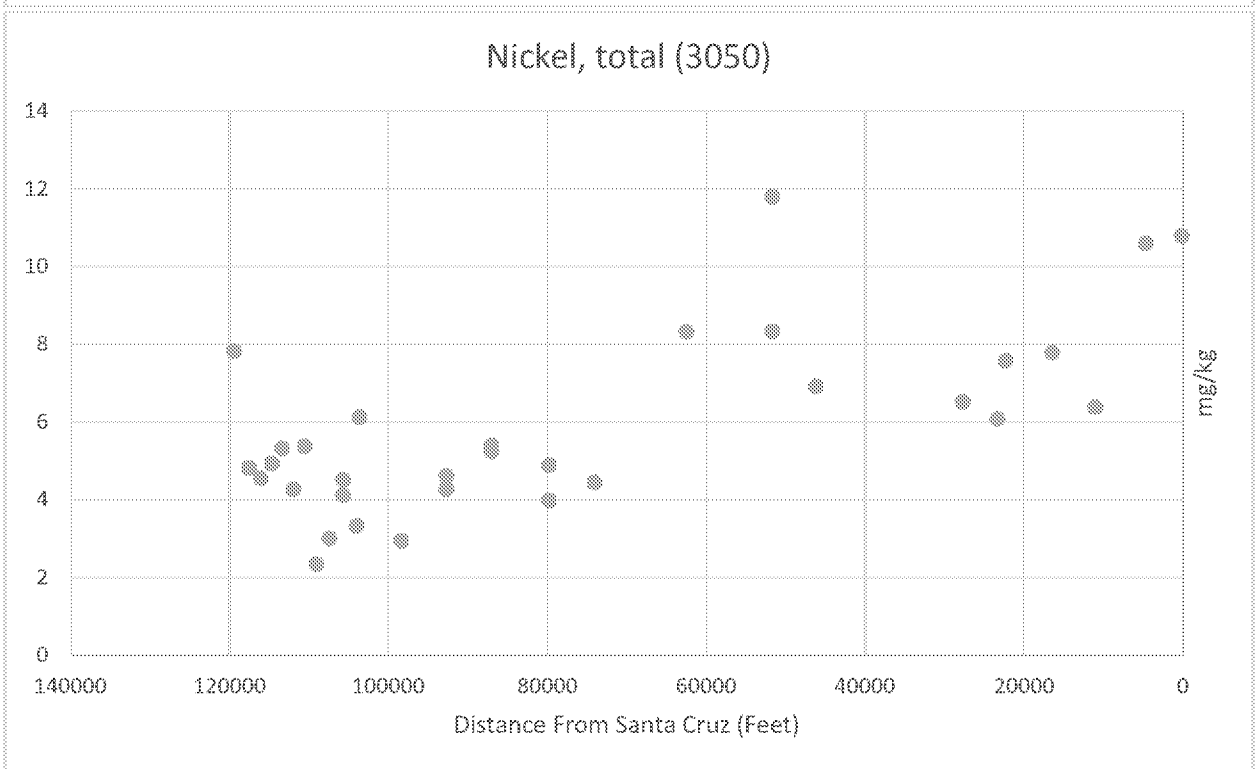

Iron, total (3050)
30000
25000
20000
15000
10000
5000
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

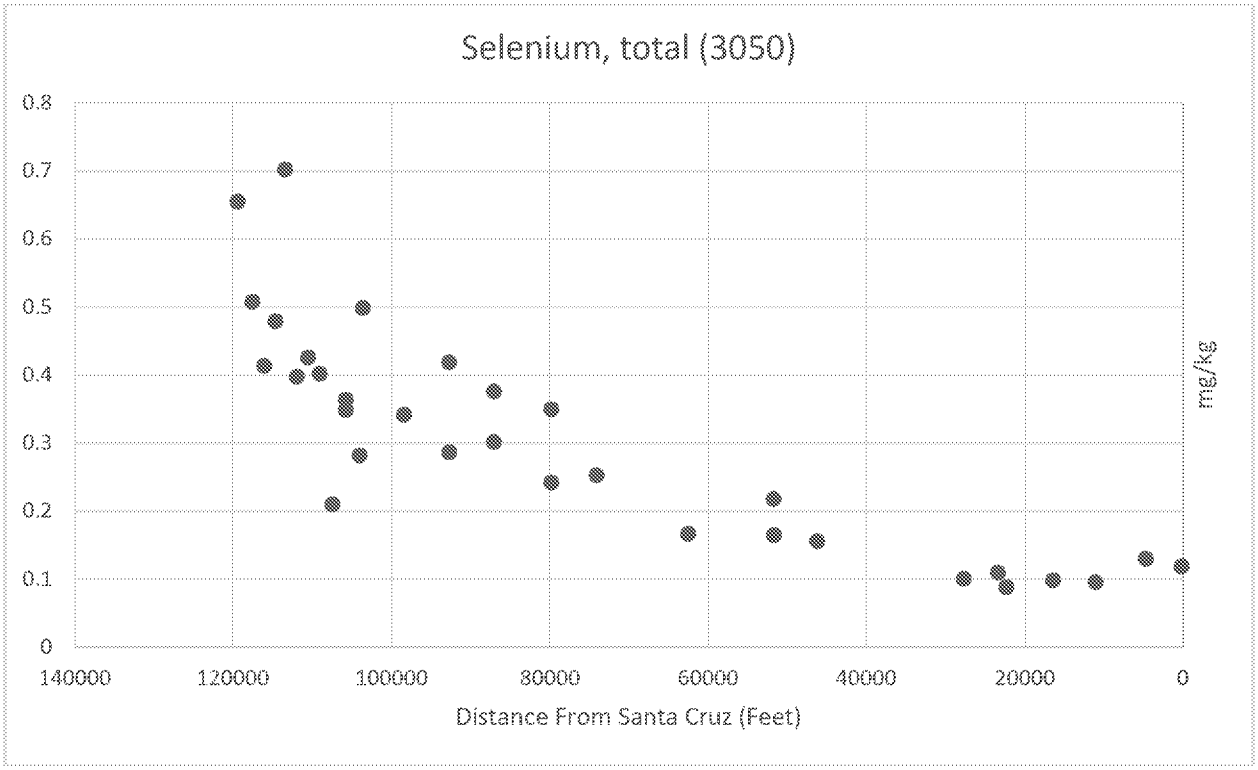

Lead, total (3050)
35
30
25
20
15
10
5
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

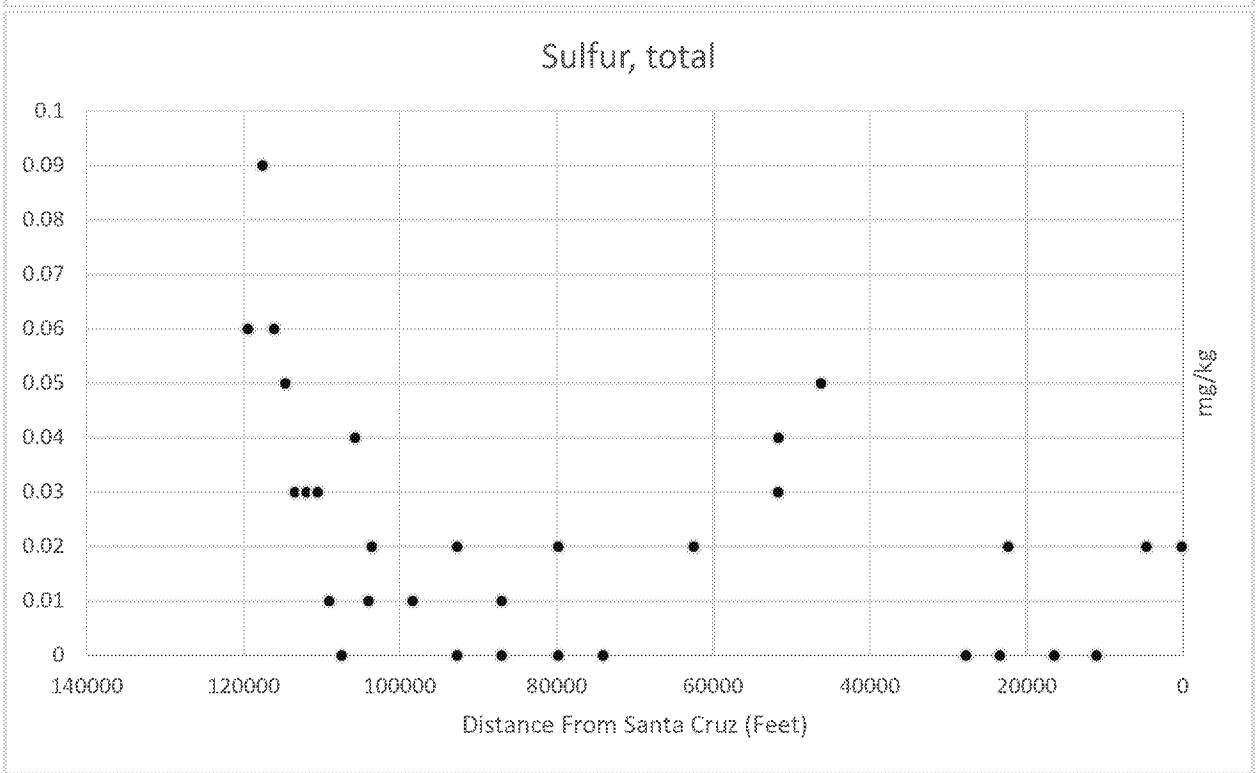

Magnesium, total (3050)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

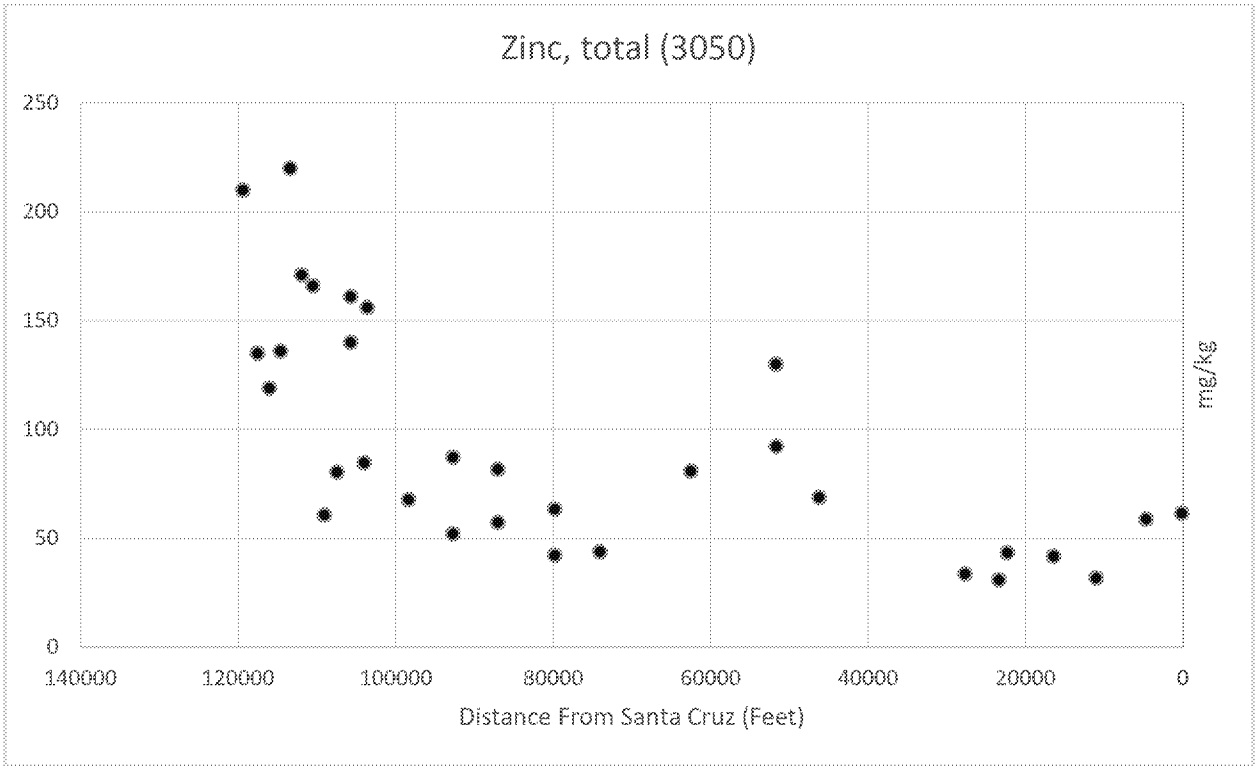

Manganese, total (3050)
1200
1000
800
600
400
200
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg


Molybdenum, total (3050)
30
25
20
15
10
5
0
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

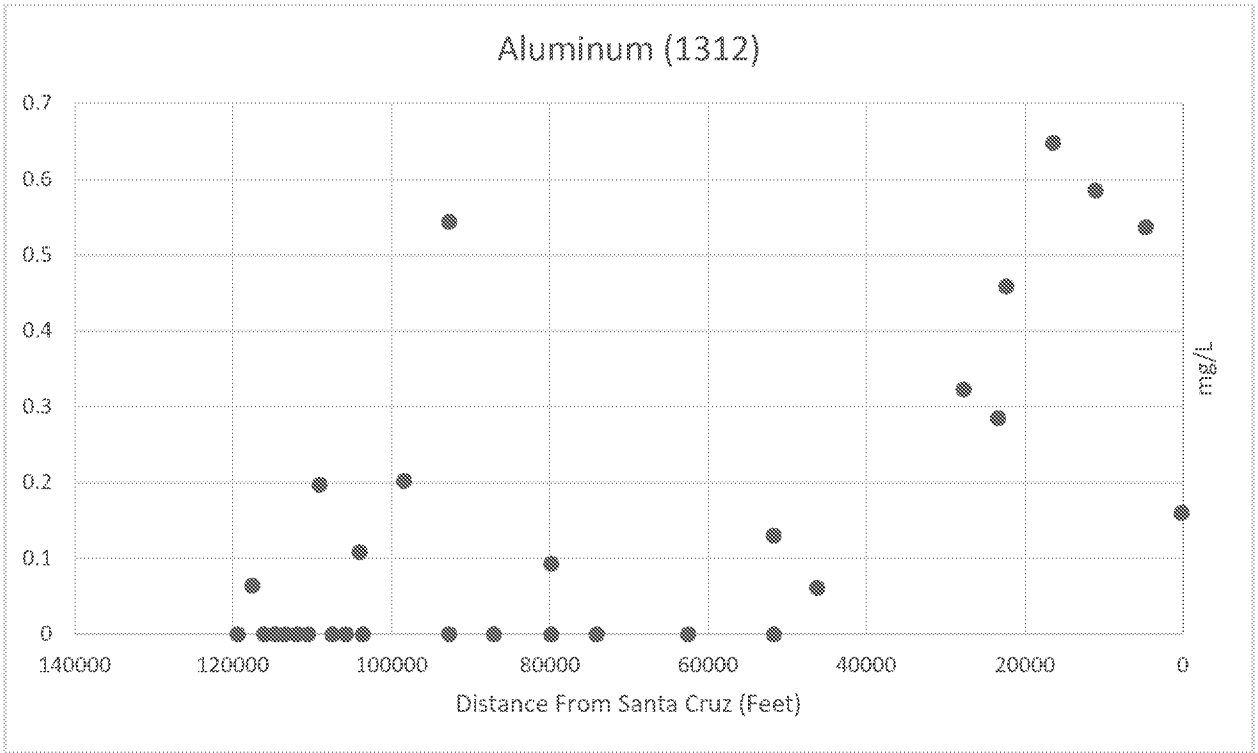

Nickel, total (3050)
14
12
10
8
6
4
2
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

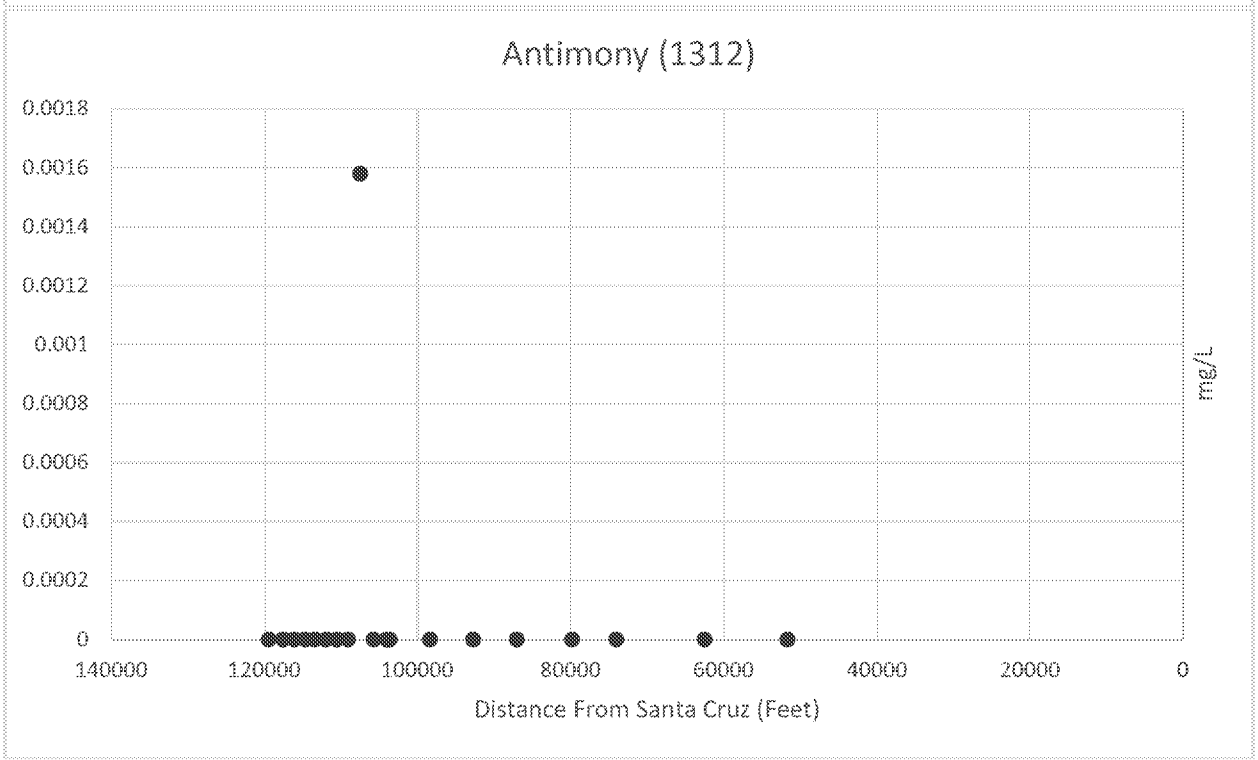

Selenium, total (3050)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

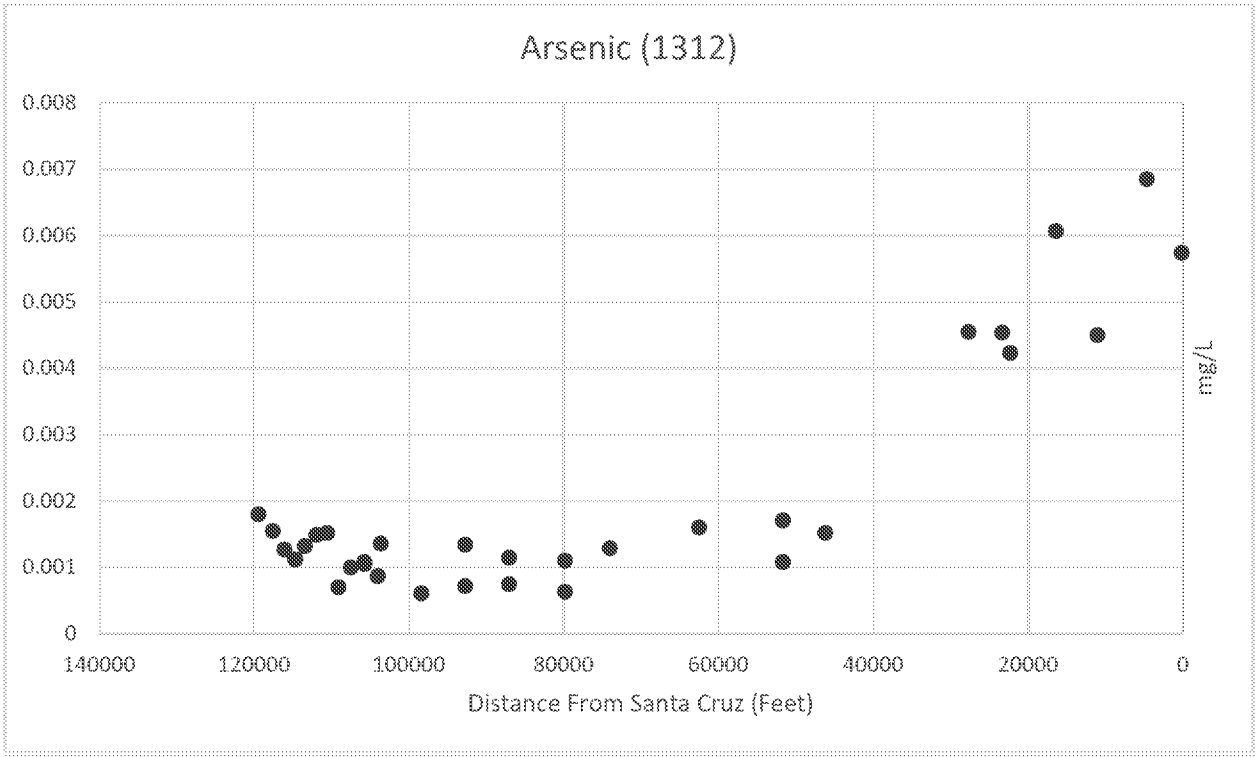

Sulfur, total
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)
mg/kg

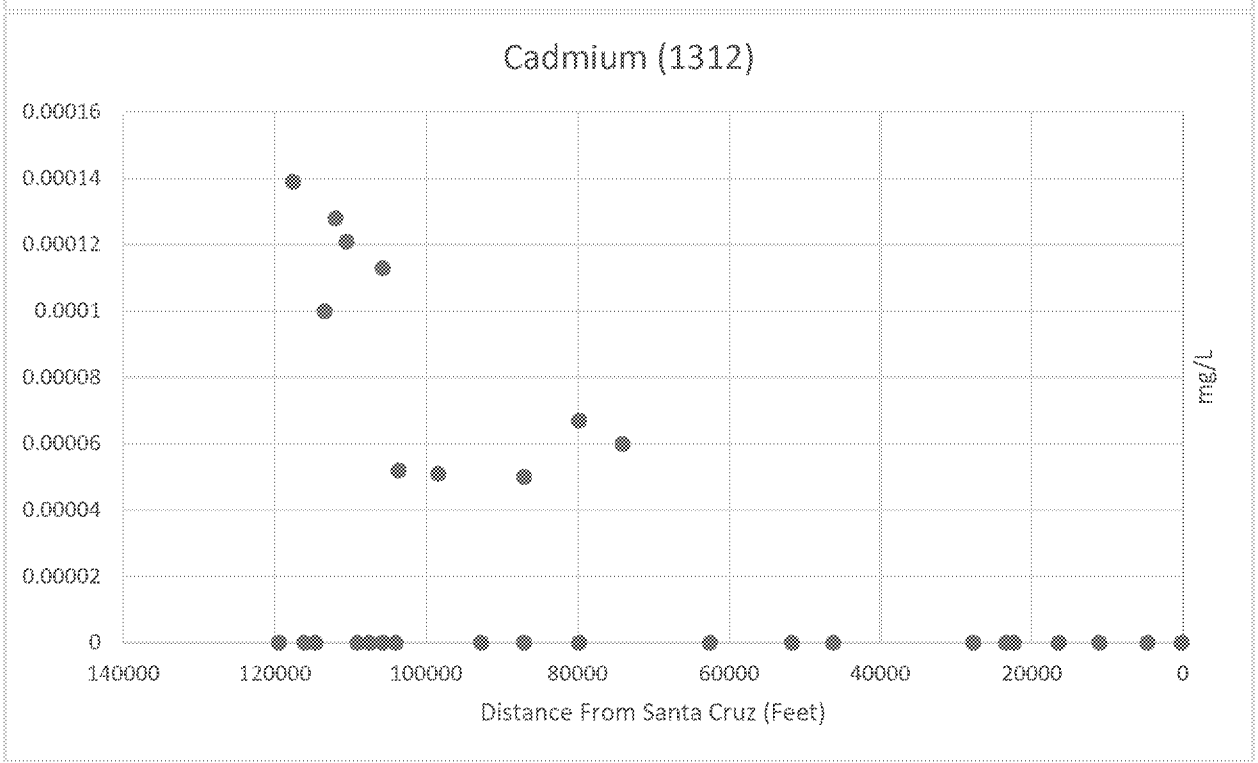

Zinc, total (3050)
250
200
150
100
50
0
mg/kg
140000
120000
100000
80000
60000
40000
20000
0
Distance From Santa Cruz (Feet)

Leachable Constituents (Method 1312)

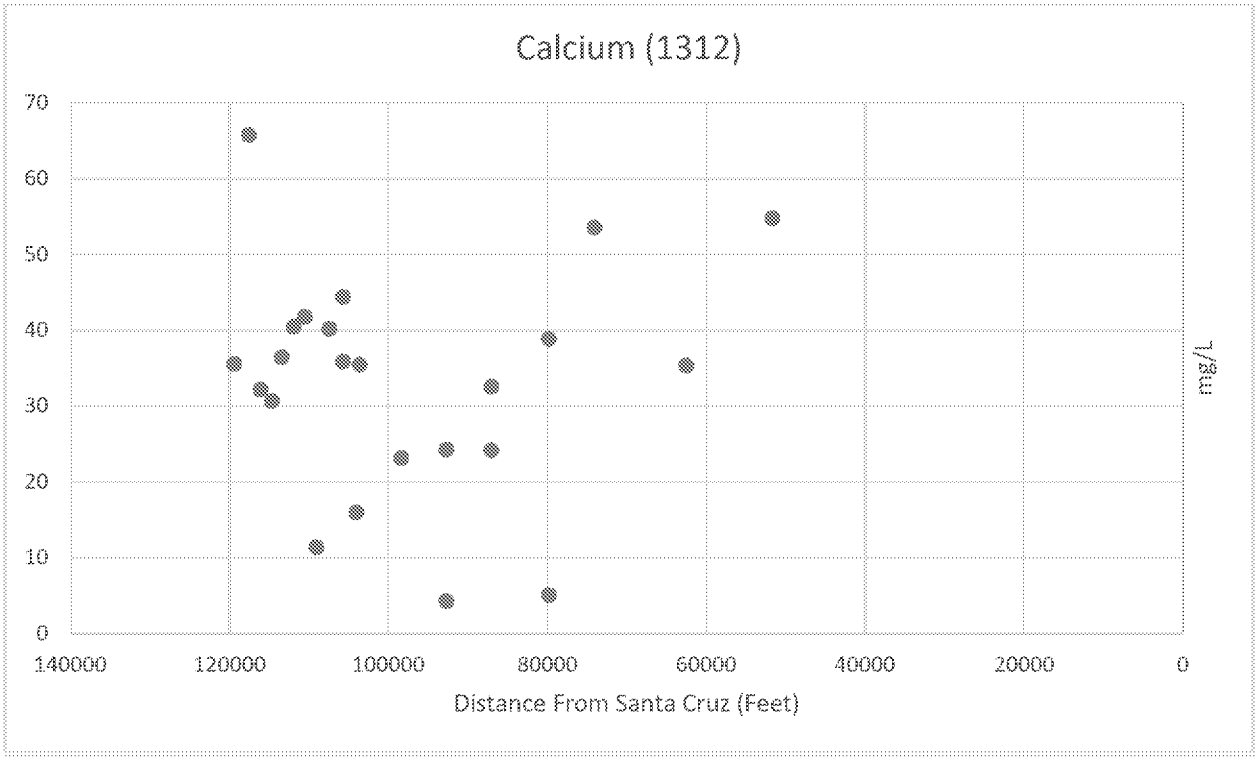


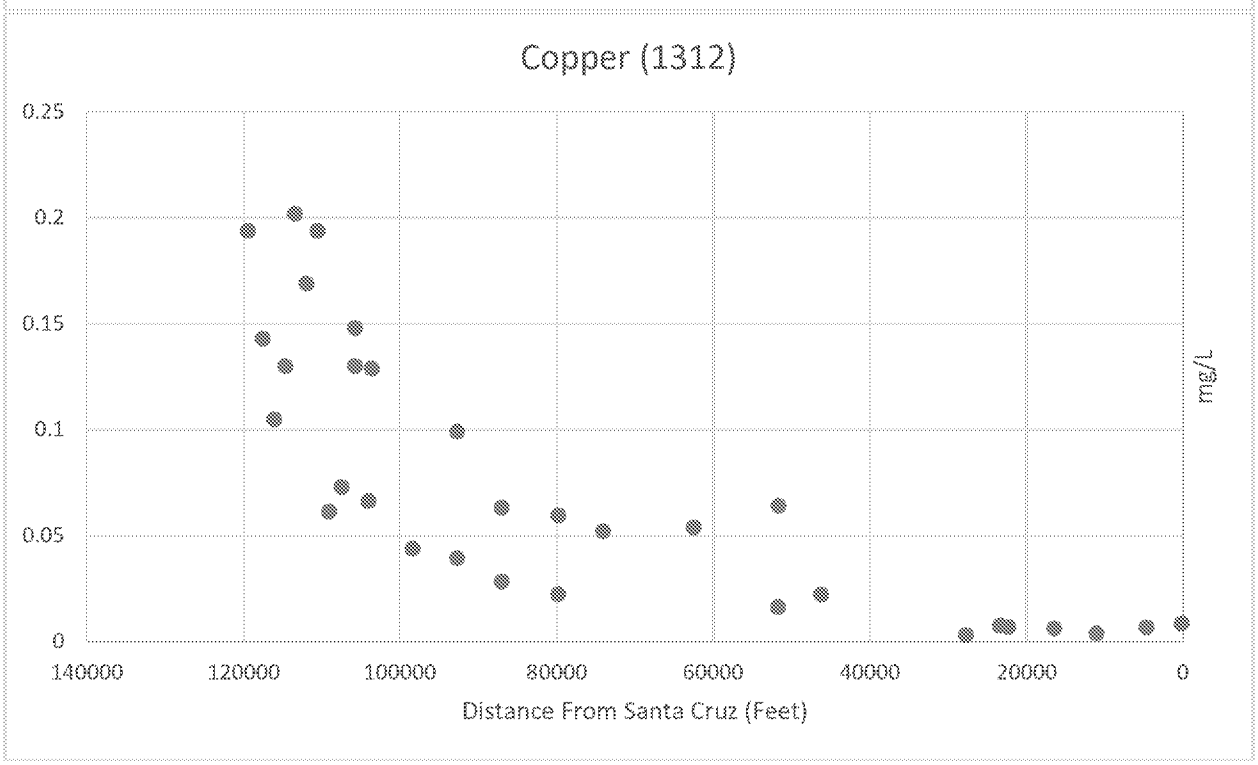




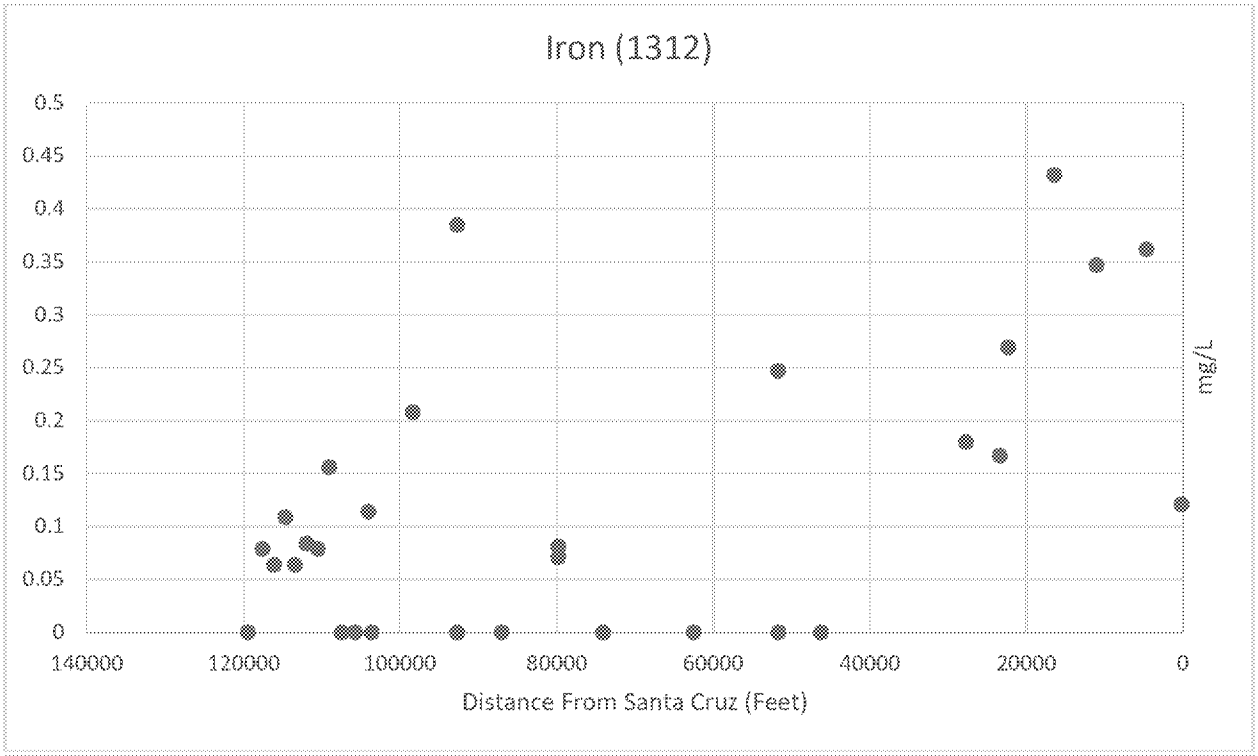


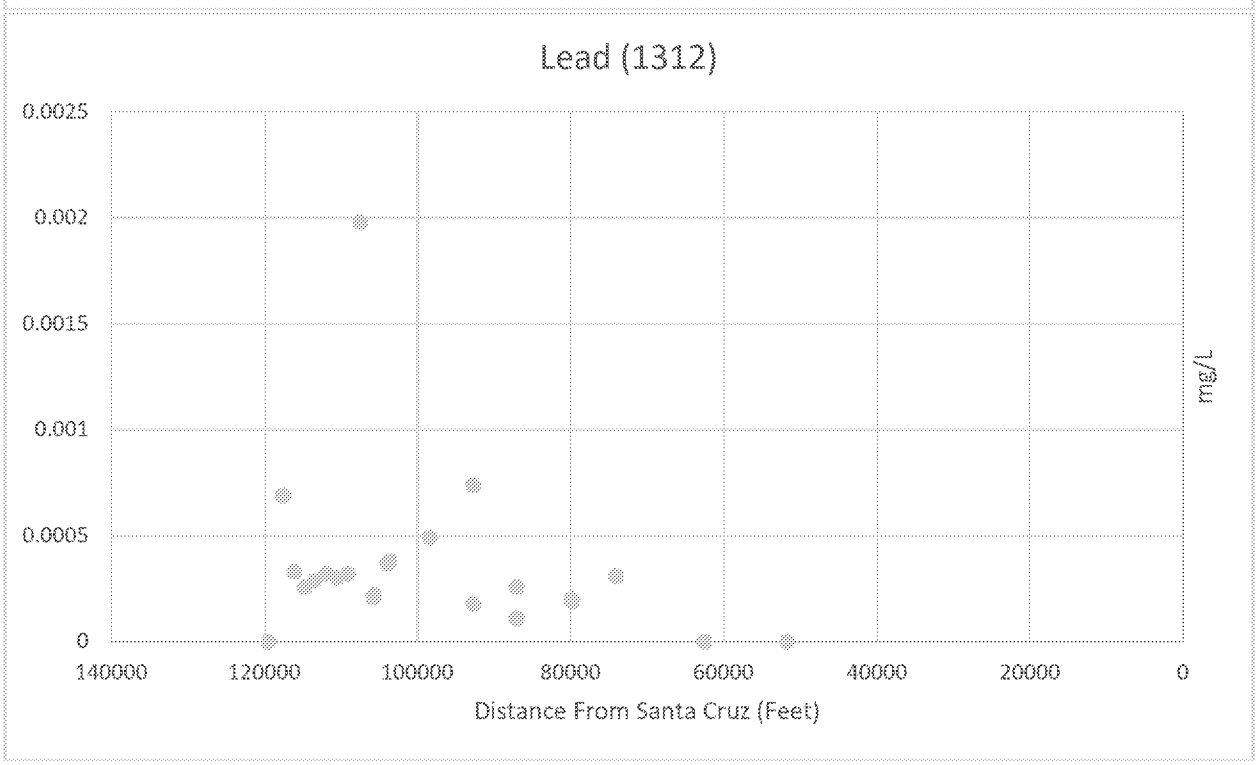
Biological Graphs – Soil Under Tree



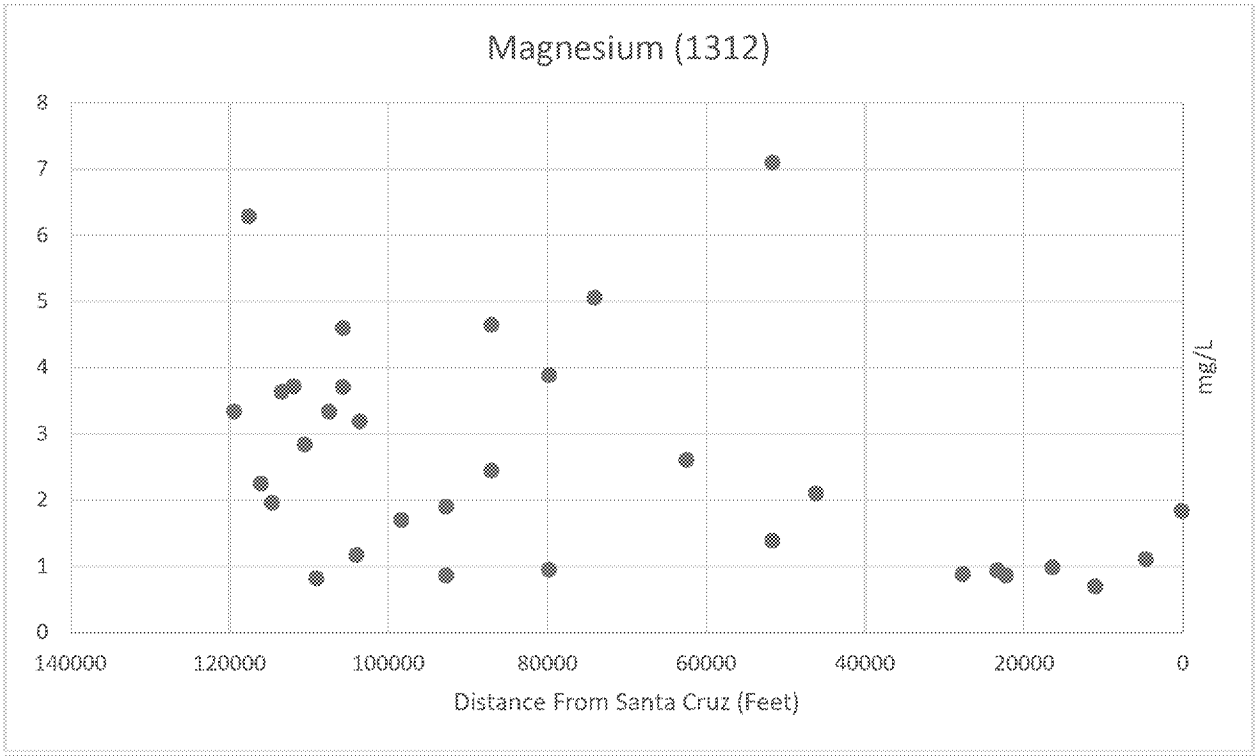


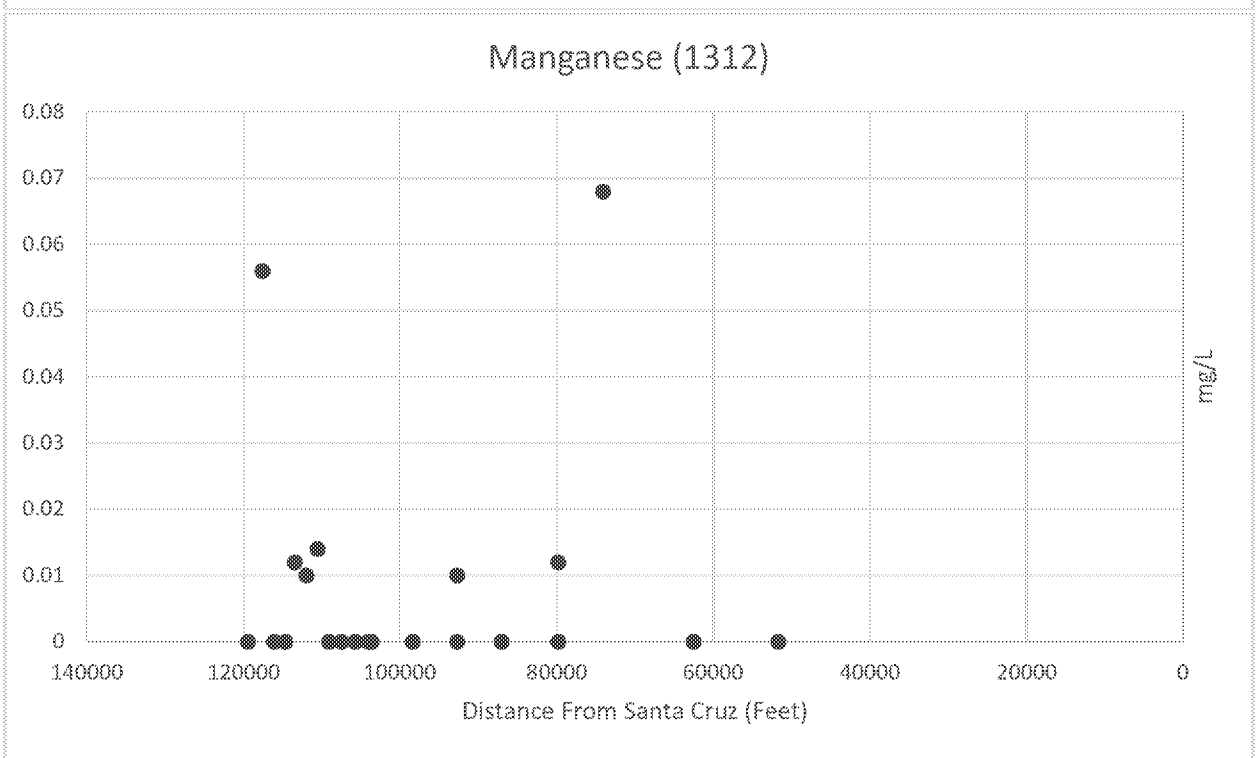
Biological Graphs – Soil Under Tree



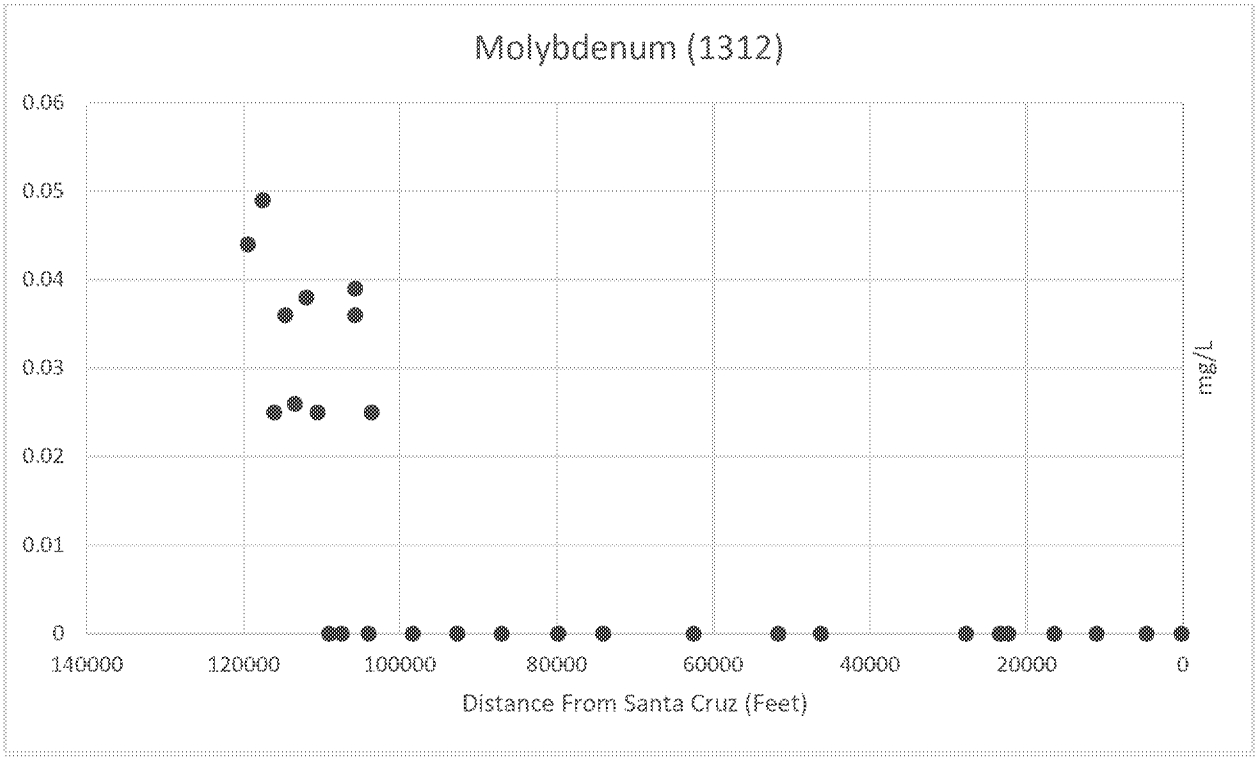


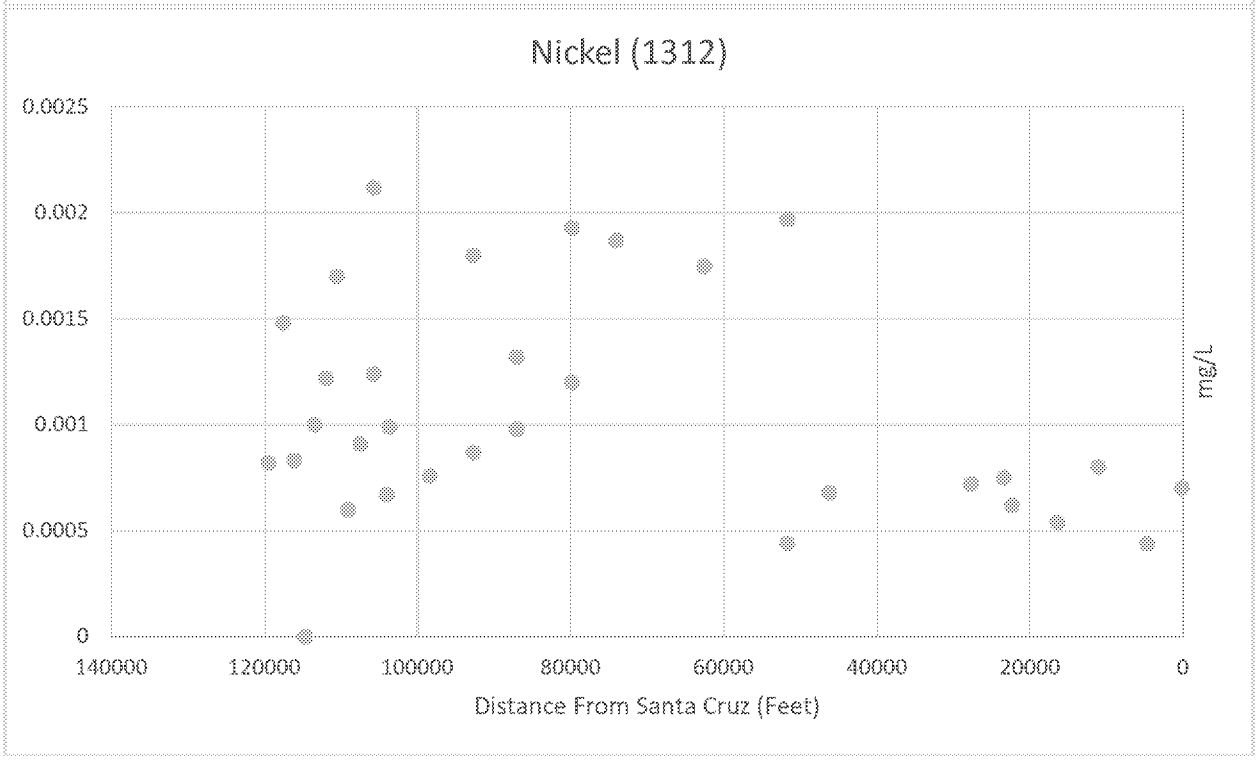
Biological Graphs – Soil Under Tree



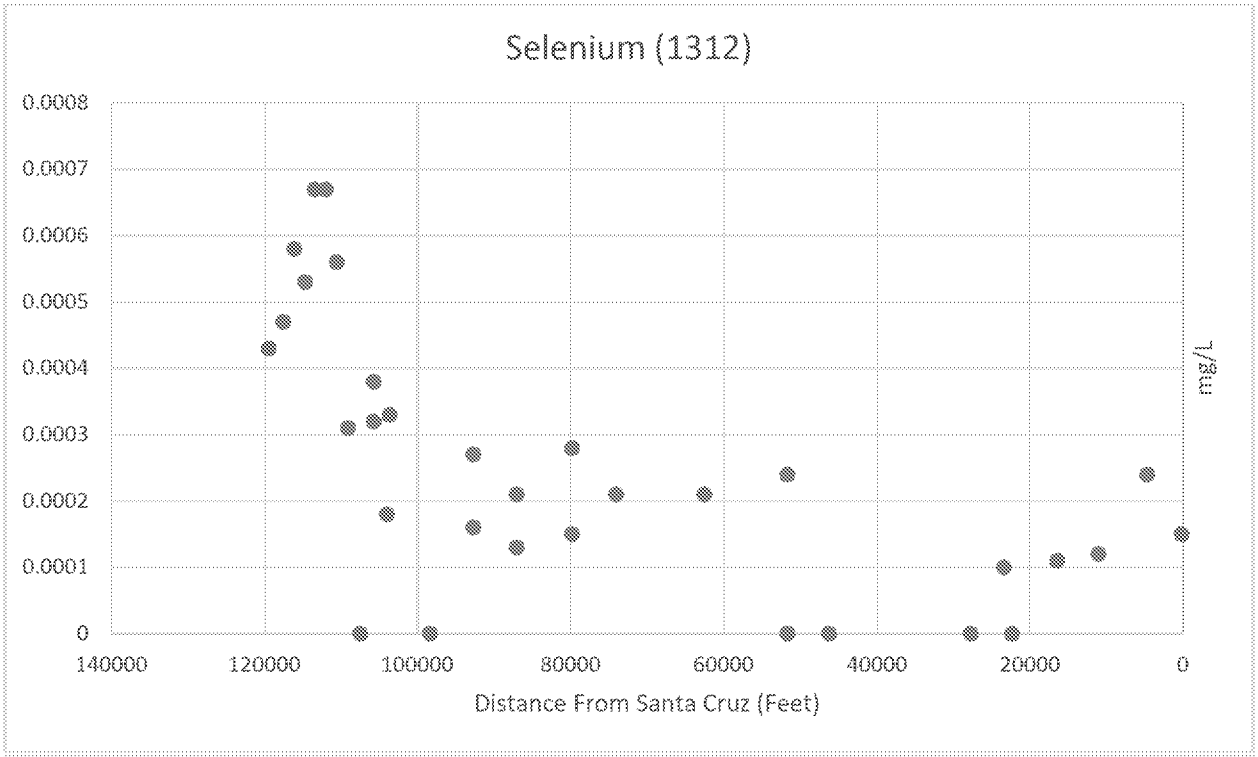


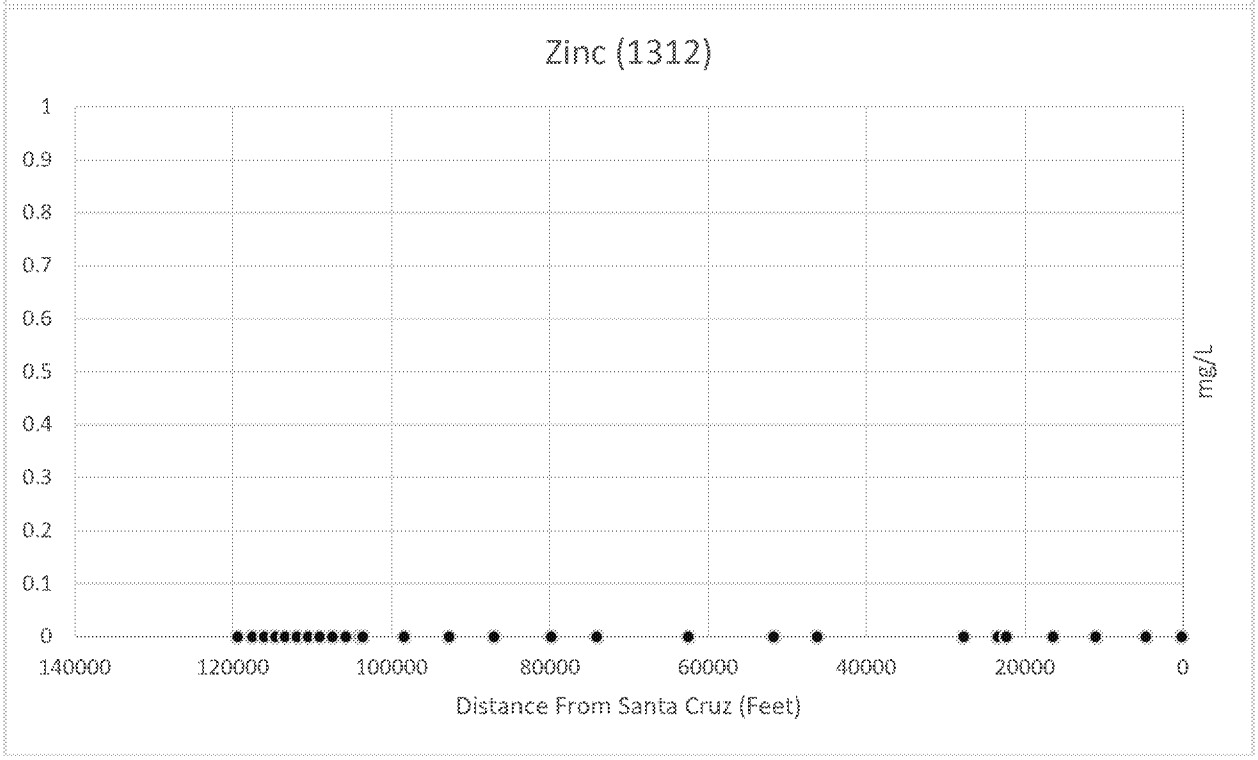
Biological Graphs – Soil Under Tree





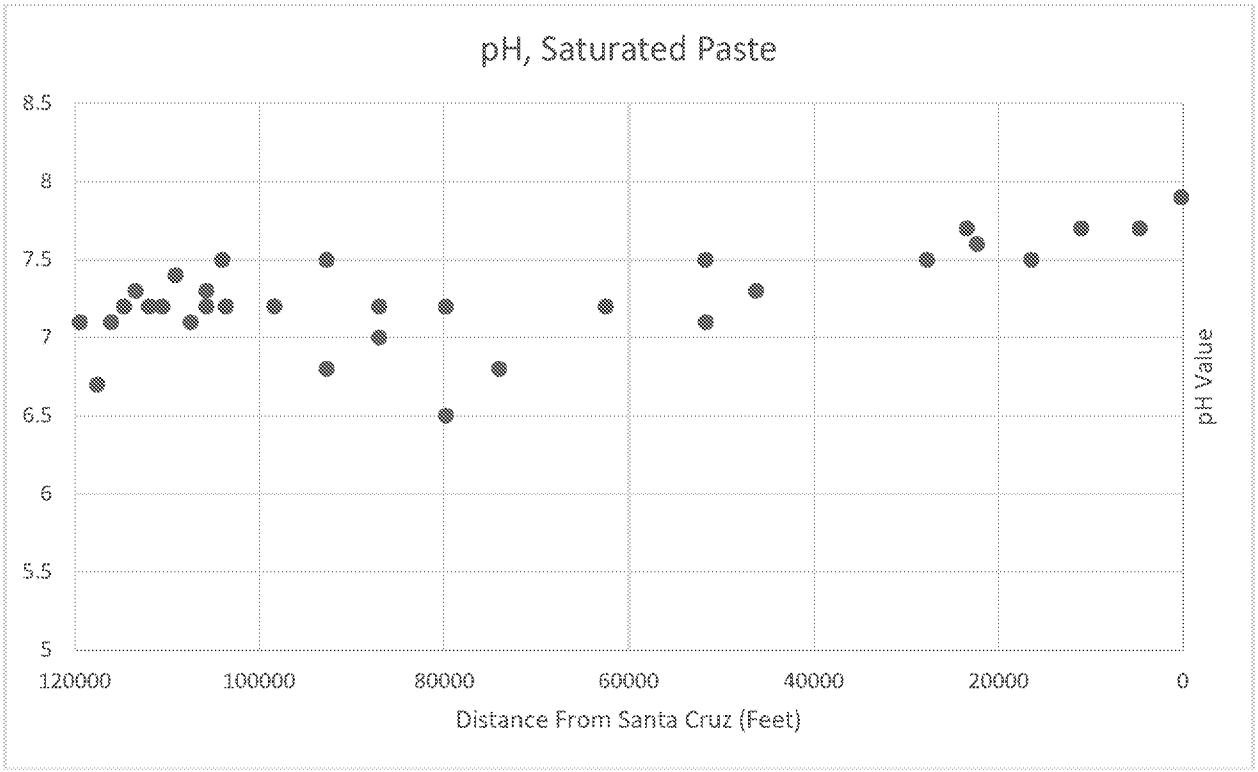
Biological Graphs – Soil Under Tree

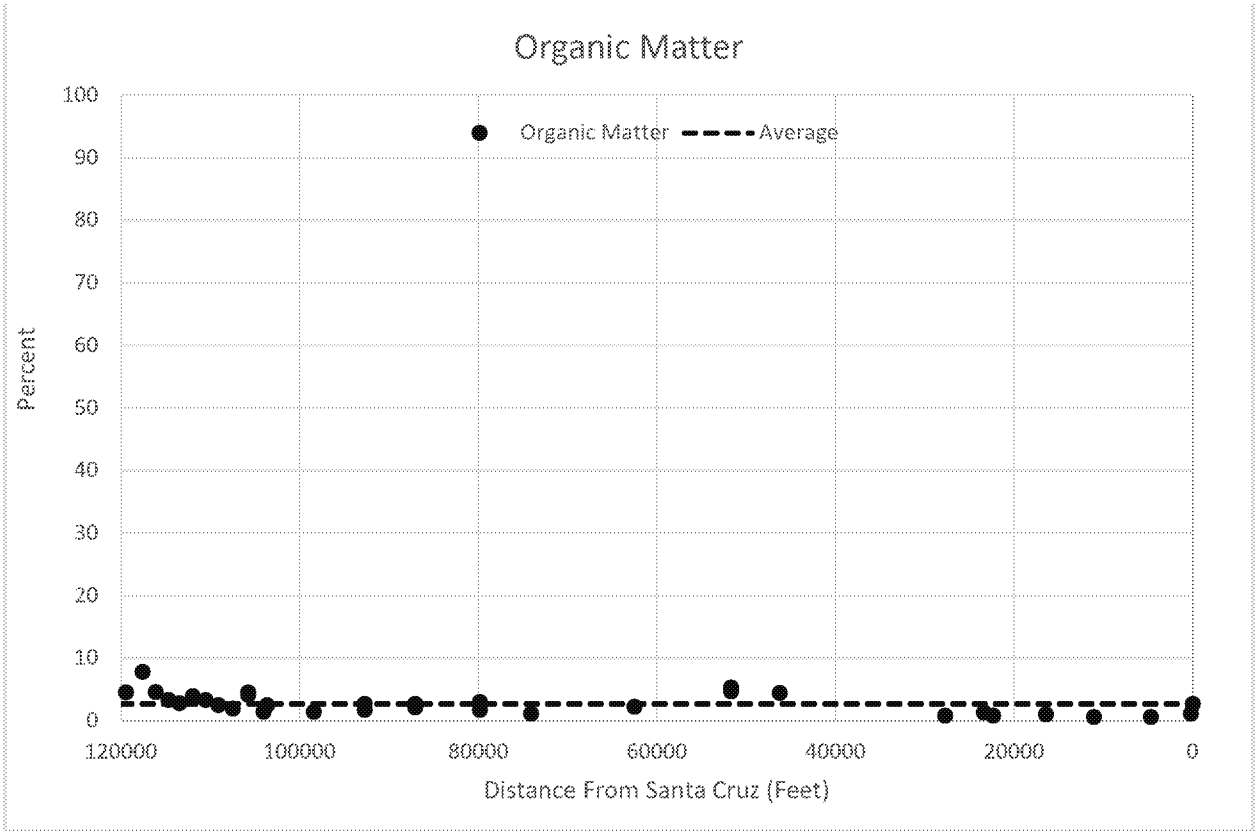




Biological Graphs – Soil Under Tree

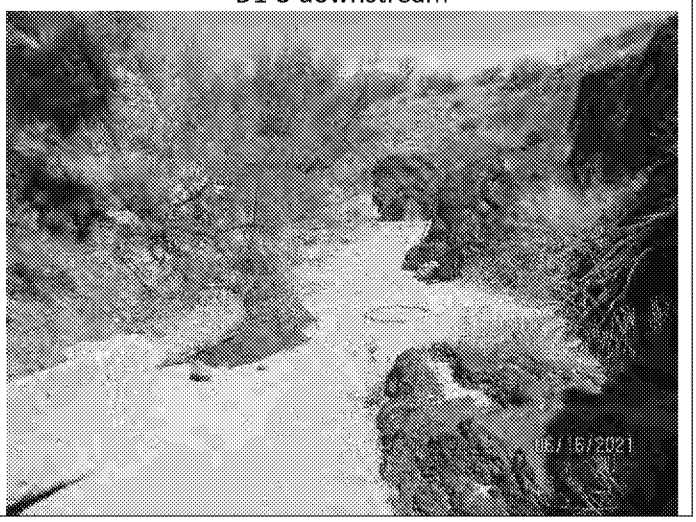
Other Graphs

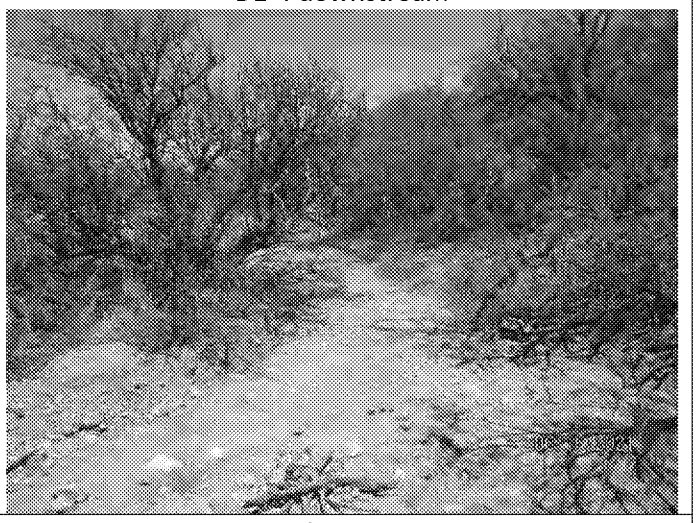
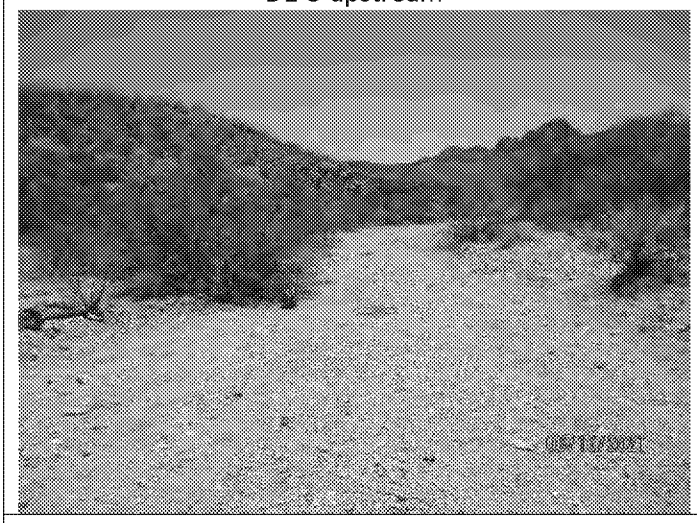




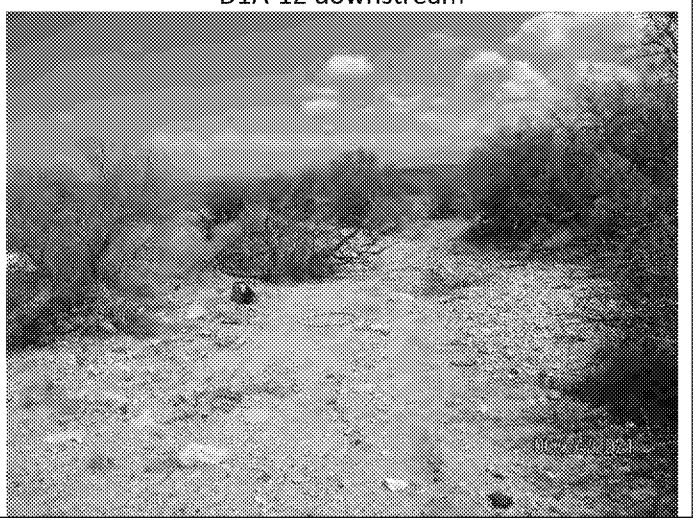
ATTACHMENT F

Sediment Sample Photo Log

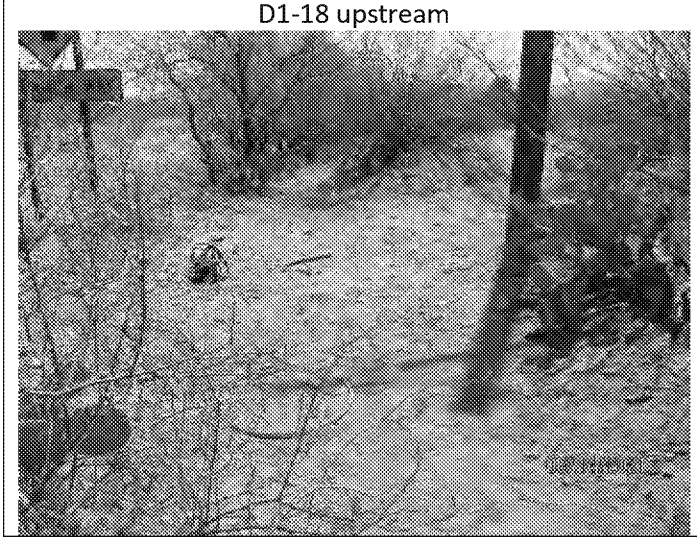
Drainage 1	
D1-1 upstream	D1-1 downstream
D1-2 upstream	D1-2 downstream
D1-3 upstream	D1-3 downstream
	

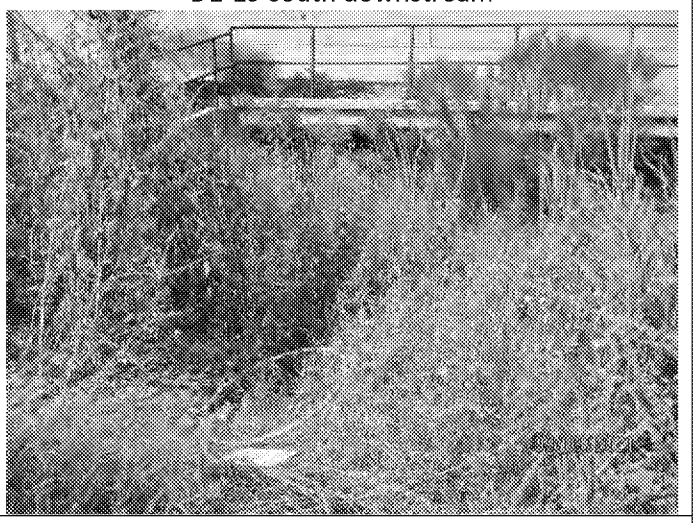
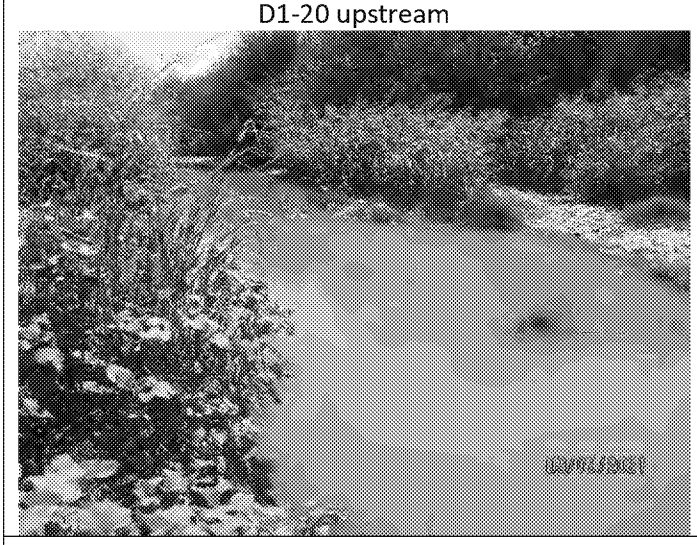
Drainage 1	
D1-4 upstream	D1-4 downstream
	
D1-5 upstream	D1-5 downstream
	
D1-6 upstream	D1-6 downstream

Drainage 1	
D1-7 upstream	D1-7 downstream
D1-8 upstream	D1-8 downstream
D1-9 upstream	D1-9 downstream

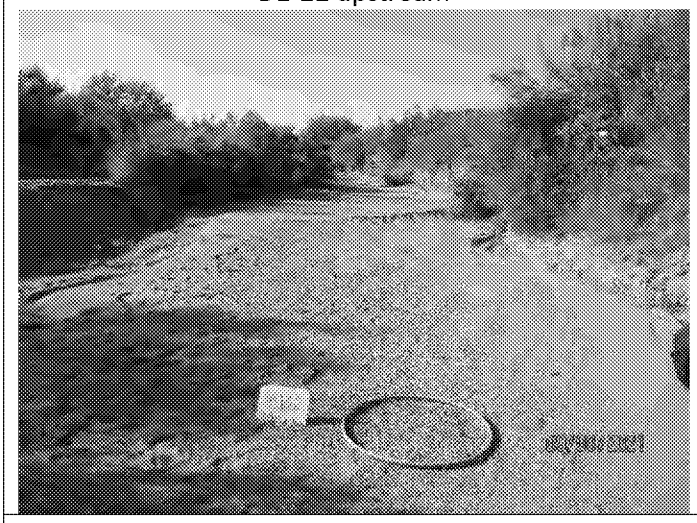
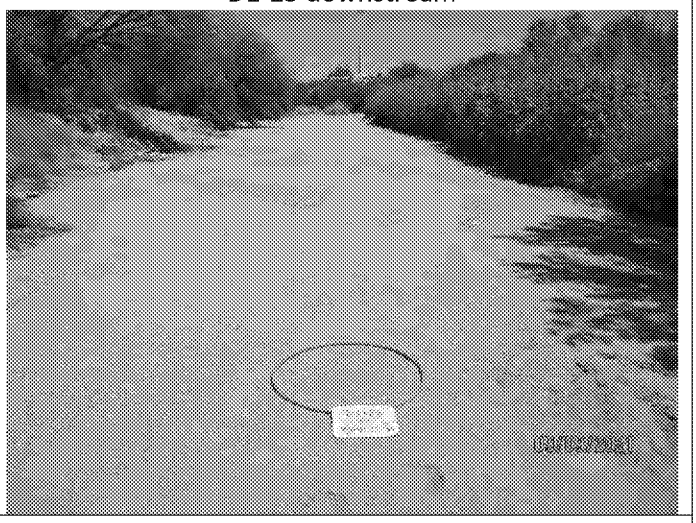
Drainage 1	
D1-10 upstream	D1-10 downstream
D1-11 upstream	D1-11 downstream
D1A-12 upstream	D1A-12 downstream
	

Drainage 1	
D1-13 upstream	D1-13 downstream
D1-14 upstream	D1-14 downstream
D1-15 upstream	D1-15 downstream

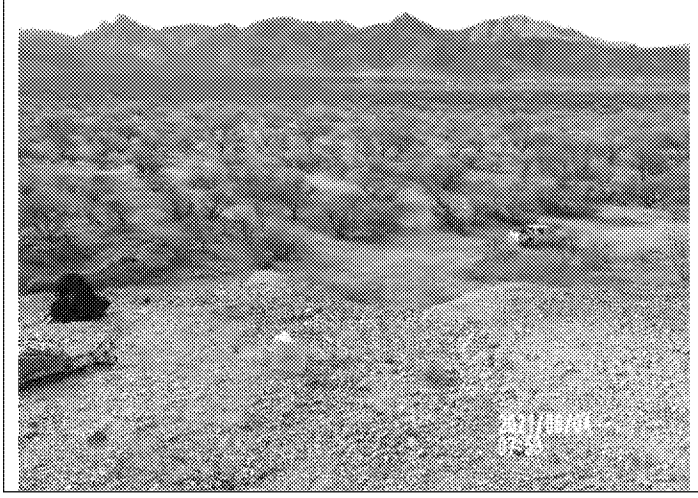
Drainage 1	
D1-16 upstream	D1-16 downstream
D1-17 upstream	D1-17 downstream
D1-18 upstream	D1-18 downstream
	

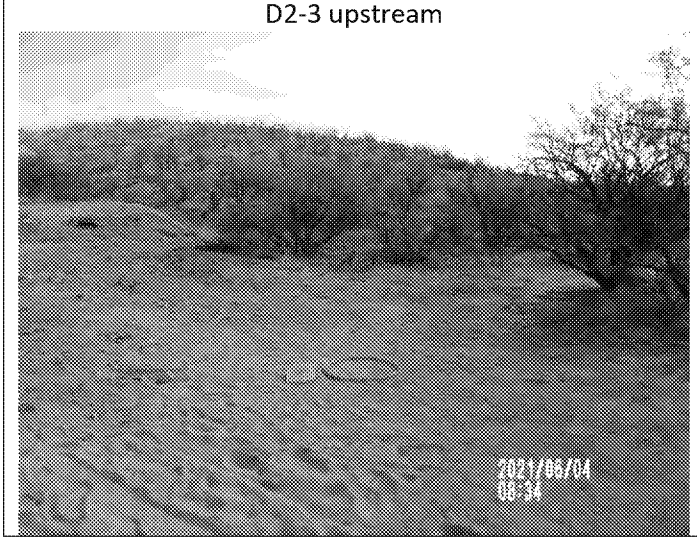
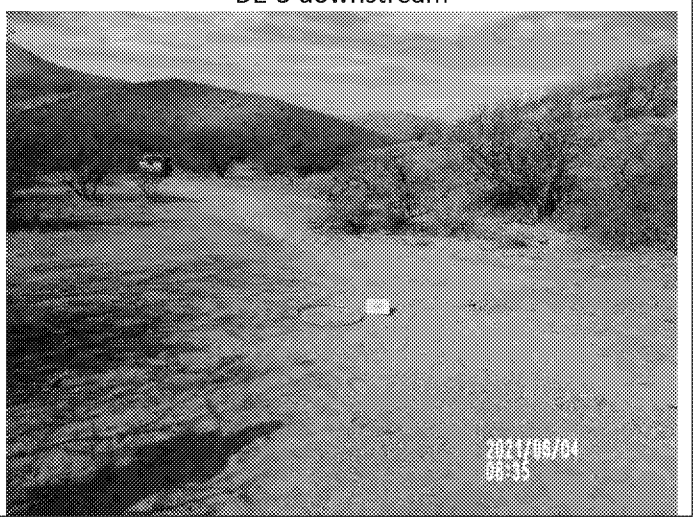
Drainage 1	
D1-19 upstream 	D1-19 downstream
D1-19 south upstream 	D1-19 south downstream 
D1-20 upstream 	D1-20 downstream

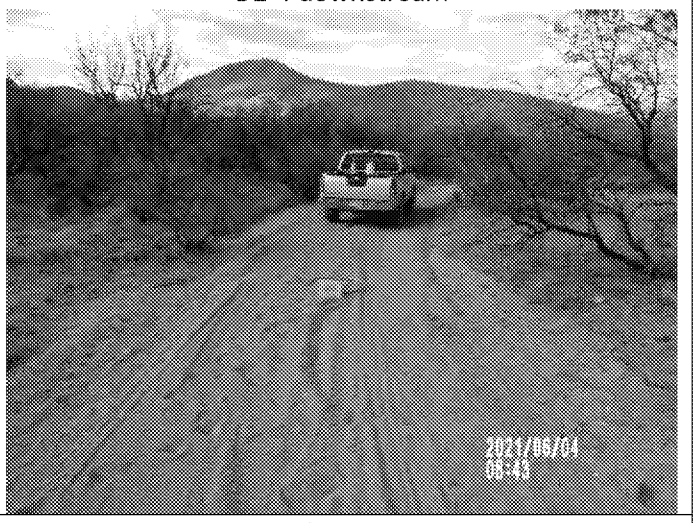
Drainage 1	
D1-20A upstream 	D1-20A downstream
D1-20B upstream 	D1-20B downstream
D1-21 upstream 	D1-21 downstream

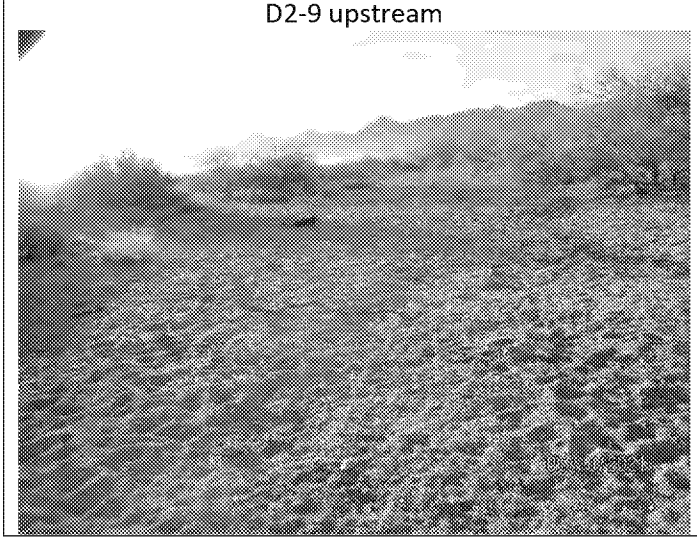
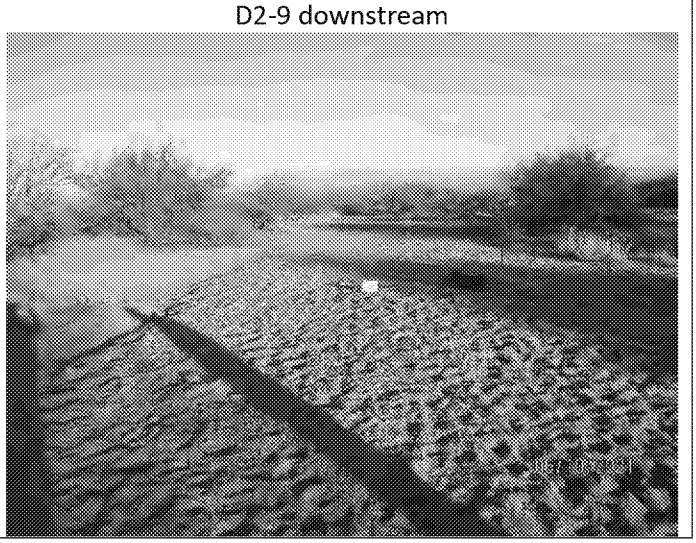
Drainage 1	
D1-22 upstream	D1-22 downstream
	
D1-23 upstream	D1-23 downstream
	
D1-24 upstream	D1-24 downstream

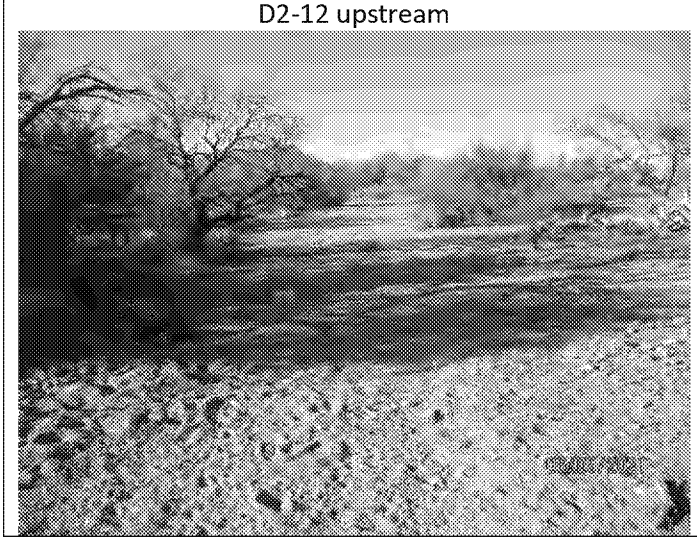
Drainage 1	
D1-25 upstream	D1-25 downstream

Drainage 2	
D2-S1 source - Ridley Mine looking southeast	D2-S1 source
D2-S2 source – Ridley Mine looking southeast	D2-S2
	

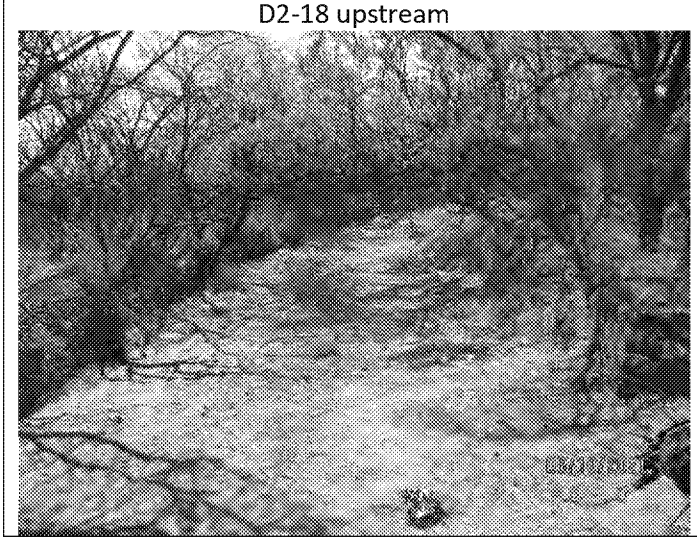
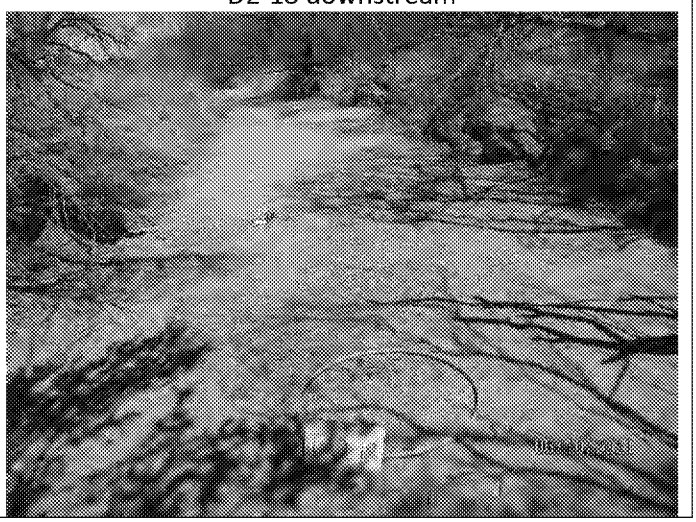
Drainage 2	
D2-1 upstream 	D2-1 downstream
D2-2 upstream 	D2-2 downstream
D2-3 upstream  	D2-3 downstream 

Drainage 2	
D2-4 upstream	D2-4 downstream
	
D2-5 upstream	D2-5 downstream
D2-6 upstream	D2-6 downstream

Drainage 2	
D2-7 upstream 	D2-7 downstream
D2-8 upstream 	D2-8 downstream
D2-9 upstream 	D2-9 downstream 

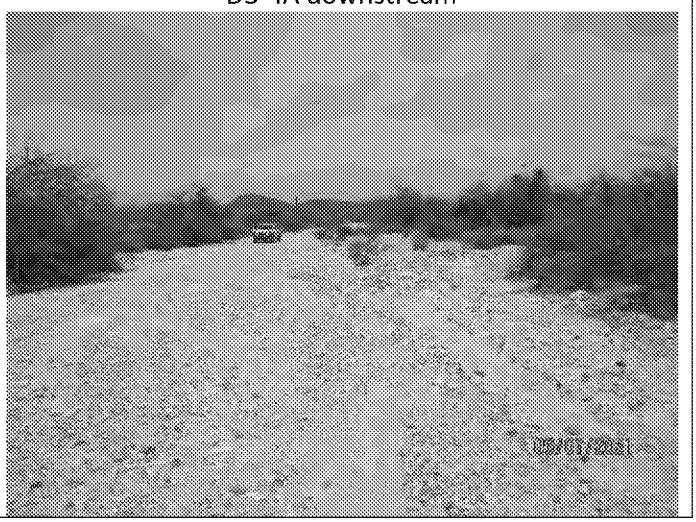
Drainage 2	
D2-10 upstream (D2-22 duplicate)	D2-10 downstream
D2-11 upstream	D2-11 downstream
D2-12 upstream	D2-12 downstream
	

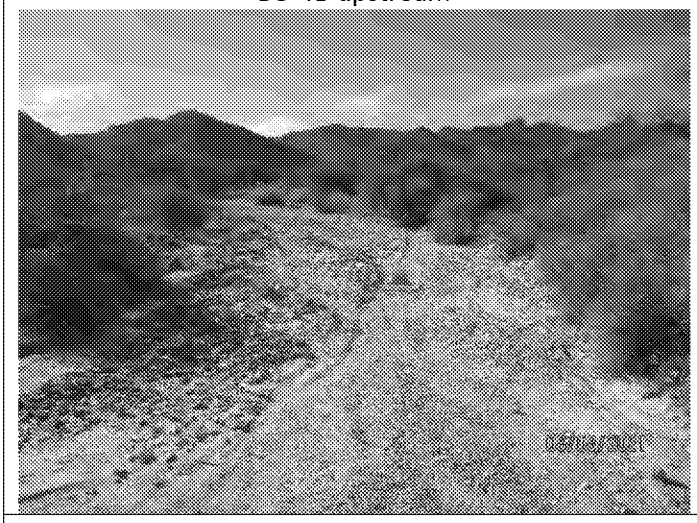
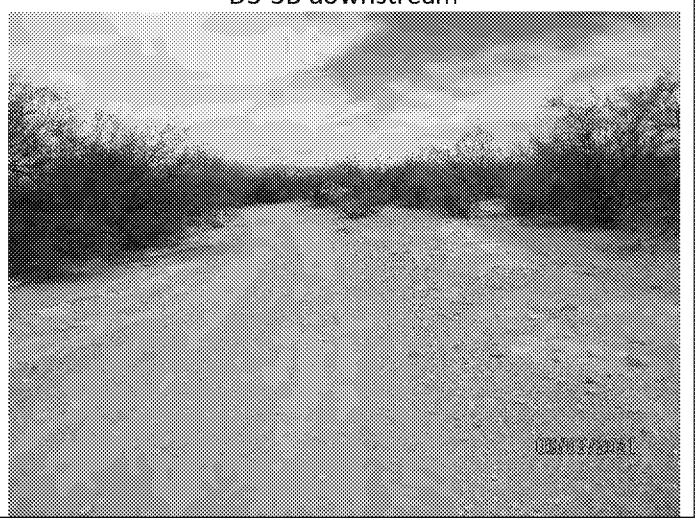
Drainage 2	
D2-13 upstream	D2-13 downstream
D2-14 upstream	D2-14 downstream
D2-15 upstream	D2-15 downstream

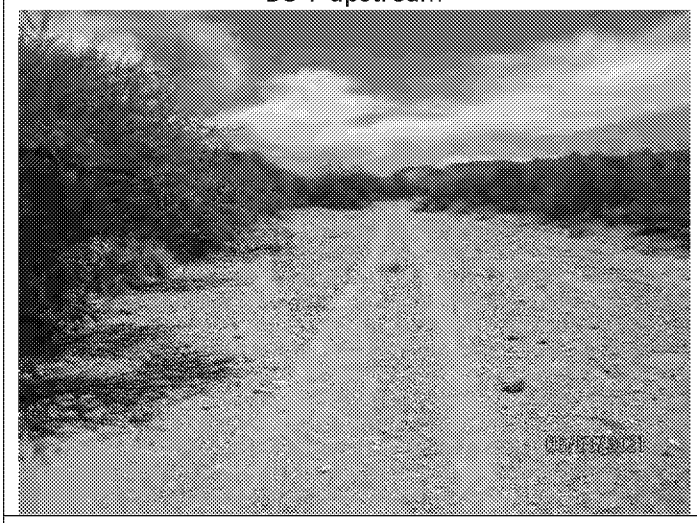
Drainage 2	
D2-16 upstream	D2-16 downstream
D2-17 upstream	D2-17 downstream
D2-18 upstream	D2-18 downstream
	

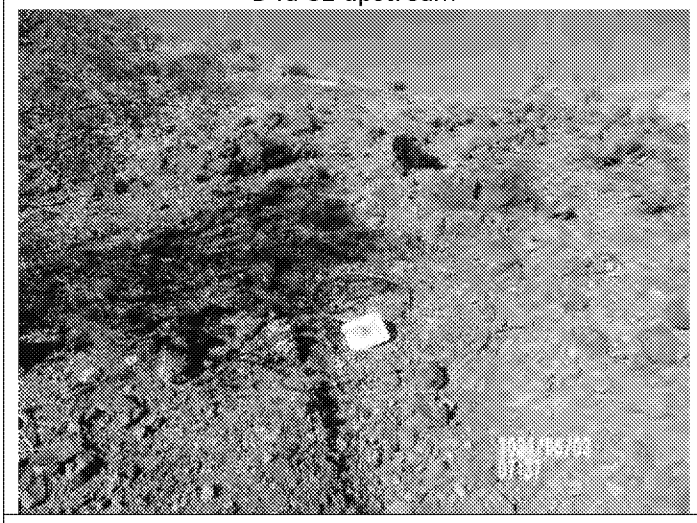
Drainage 2	
D2-19 upstream	D2-19 downstream
D2-20 upstream (D2-21 duplicate)	D2-20 downstream

Drainage 3	
D3-1 upstream	D3-1 downstream

Drainage 3	
D3-2 upstream	D3-2 downstream
D3-3 upstream	D3-3 downstream
D3-4A upstream	D3-4A downstream
	

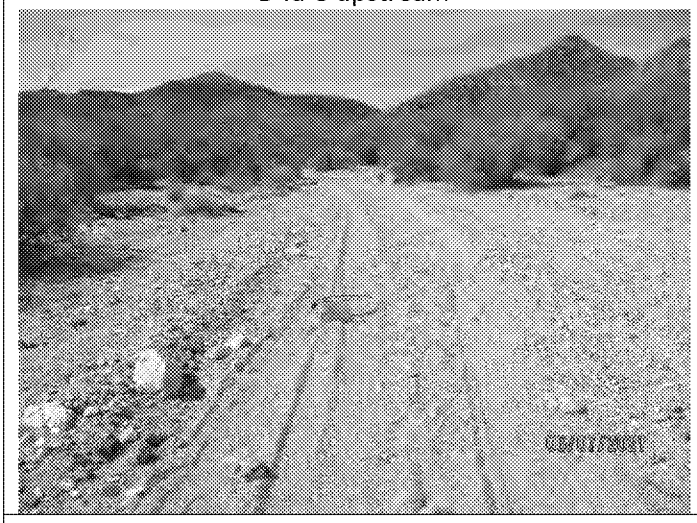
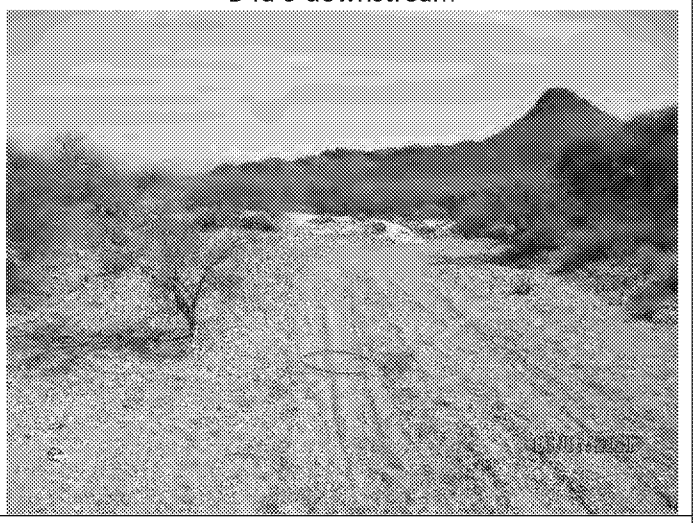
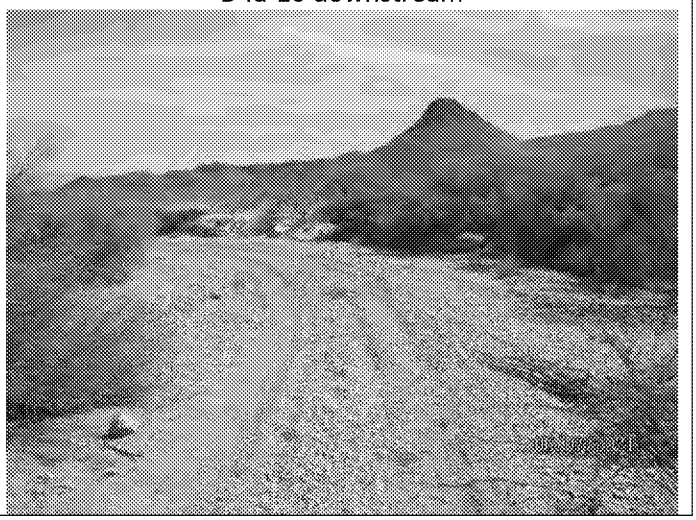
Drainage 3	
D3-4B upstream	D3-4B downstream
	
D3-5A upstream	D3-5A downstream
D3-5B upstream	D3-5B downstream
	

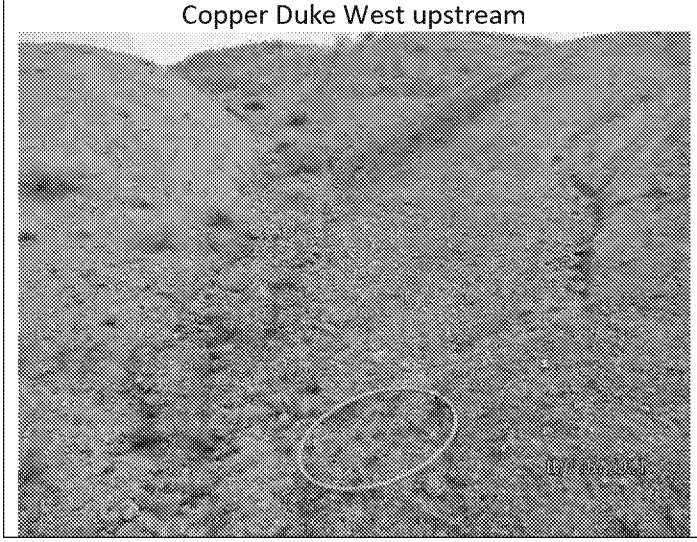
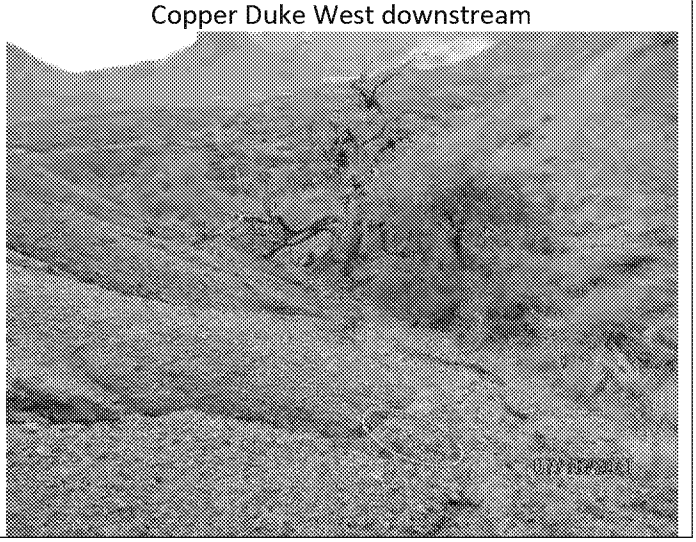
Drainage 3	
D3-6 upstream	D3-6 downstream
D3-7 upstream	D3-7 downstream
	
D3-8 upstream	D3-8 downstream

Drainage 4a	
D4a-S1 upstream	D4a-S1 downstream
	
D4a-S2 upstream	D4a-S2 downstream
D4a-1 upstream	D4a-1 downstream

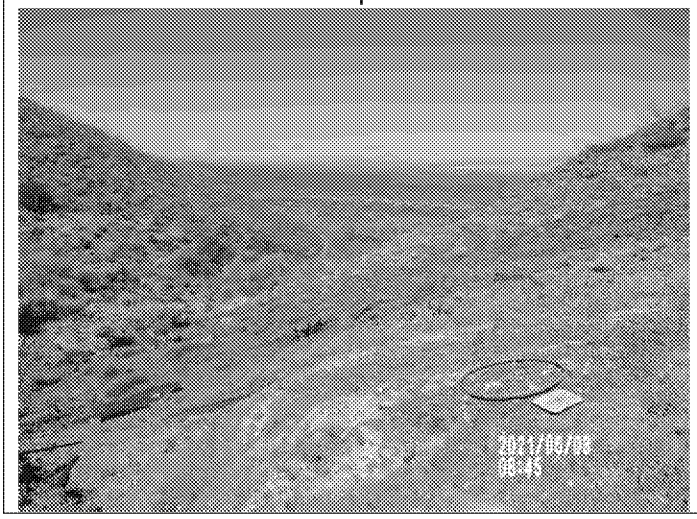
Drainage 4a	
D4a-2 upstream	D4a-2 downstream
D4a-3 upstream	D4a-3 downstream
D4a-4 upstream	D4a-4 downstream

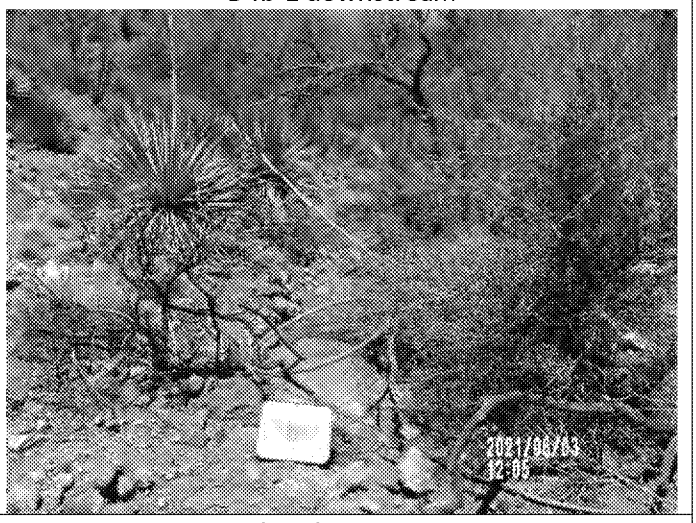
Drainage 4a	
D4a-5 upstream 	D4a-5 downstream
D4a-6 upstream 	D4a-6 downstream
D4a-7 upstream 	D4a-7 downstream

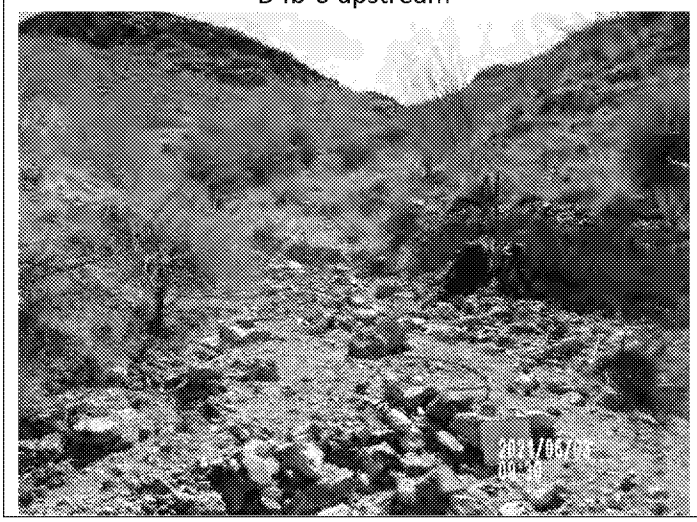
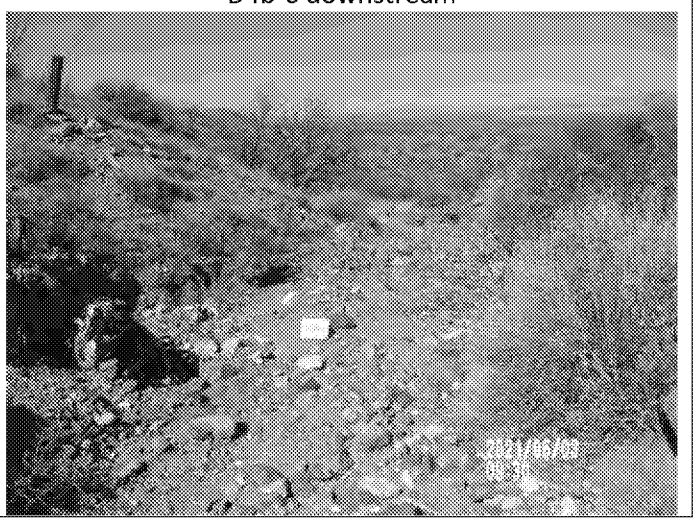
Drainage 4a	
D4a-8 upstream	D4a-8 downstream
	
D4a-9 upstream	D4a-9 downstream
	
D4a-10 upstream	D4a-10 downstream
	

Drainage 4a	
D4a-11 upstream	D4a-11 downstream
Copper Duke East upstream	Copper Duke East downstream
Copper Duke West upstream	Copper Duke West downstream
	

Drainage 4	
D4 upstream	D4 downstream

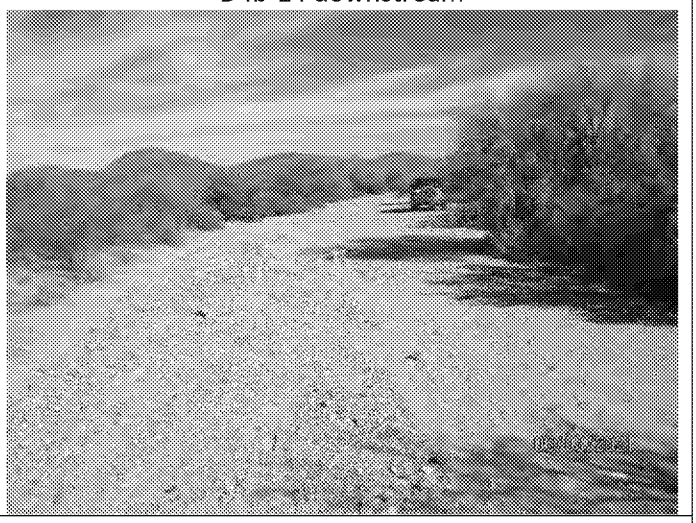
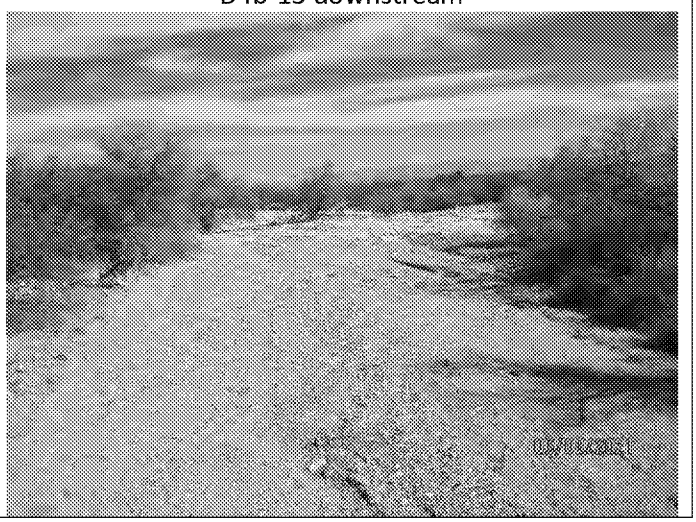
Drainage 4b	
D4b-S1 upstream	D4b-S1 downstream
D4b-S2 upstream	D4b-S2 downstream
	

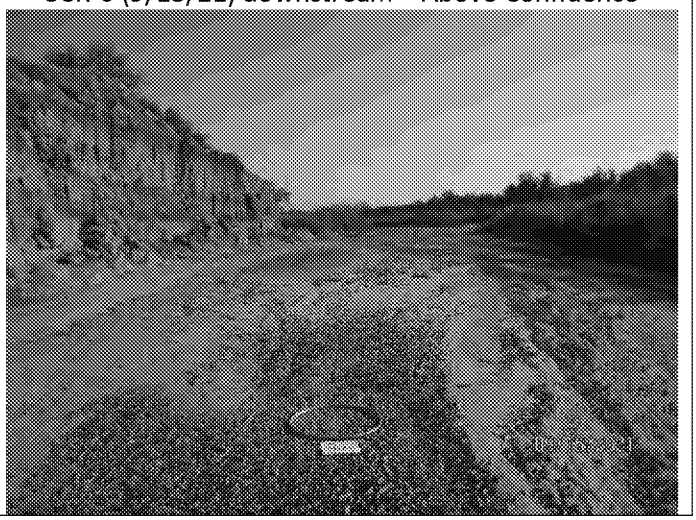
Drainage 4b	
D4b-1 upstream	D4b-1 downstream
	
D4b-2 upstream	D4b-2 downstream
D4b-3 upstream	D4b-3 downstream

Drainage 4b	
D4b-4 upstream	D4b-4 downstream
D4b-5 upstream	D4b-5 downstream
D4b-6 upstream	D4b-6 downstream
	

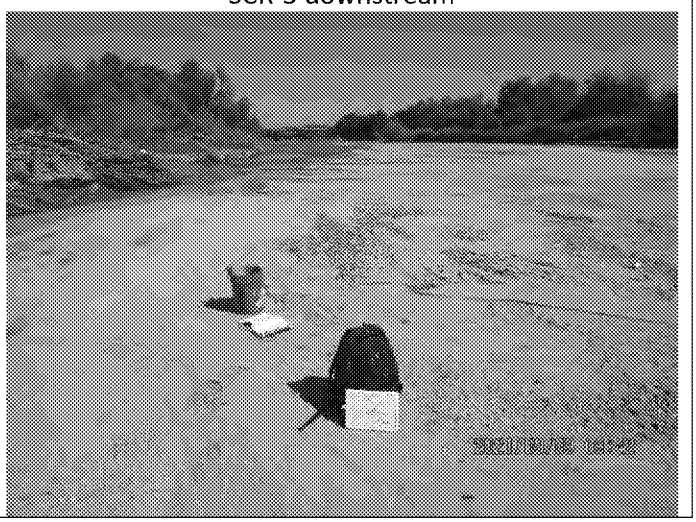
Drainage 4b	
D4b-7 upstream	D4b-7 downstream
D4b-8 upstream	D4b-8 downstream
D4b-9 upstream	D4b-9 downstream

Drainage 4b	
D4b-10 upstream	D4b-10 downstream
D4b-11 upstream	D4b-11 downstream
D4b-12 upstream	D4b-12 downstream

Drainage 4b	
D4b-13 upstream	D4b-13 downstream
D4b-14 upstream	D4b-14 downstream
	
D4b-15 upstream	D4b-15 downstream
	

Santa Cruz River	
SCR-NH upstream	SCR-NH downstream
SCR-0 (9/9/21) upstream – Pima Mine Rd	SCR-0 (9/9/21) downstream – Pima Mine Rd
SCR-0 (9/15/21) upstream – Above Confluence	SCR-0 (9/15/21) downstream – Above Confluence
	

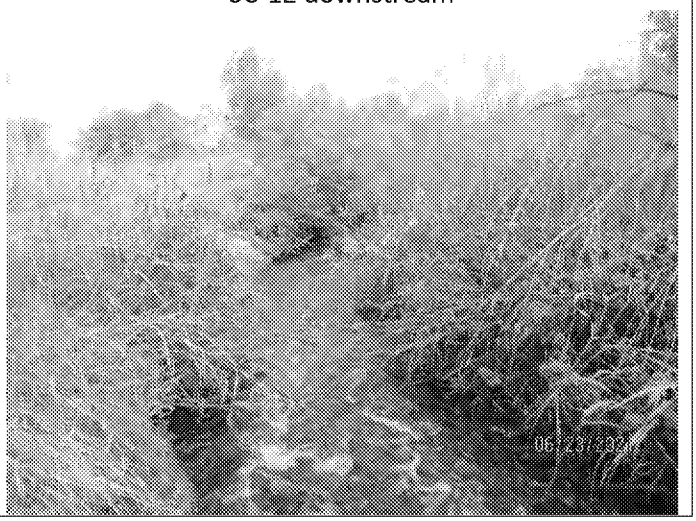
Santa Cruz River	
SCR-1 upstream	SCR-1 downstream
SCR-SJ upstream	SCR-SJ downstream
SCR-2 (9/9/21) upstream	SCR-2 (9/9/21) downstream

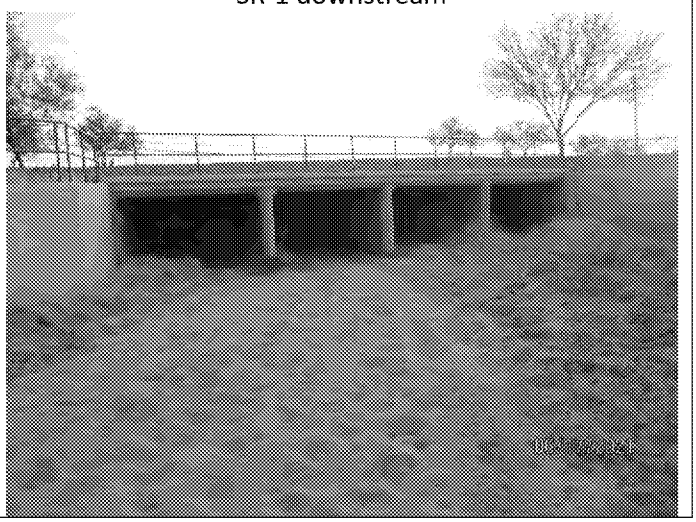
Santa Cruz River	
SCR-3 upstream	SCR-3 downstream
SCR-4 upstream	SCR-4 downstream
SCR-5 upstream	SCR-5 downstream
	

Santa Cruz River	
SC-1 upstream 	SC-1 downstream
SC-2 upstream 	SC-2 downstream
SC-3 upstream 	SC-3 downstream

Santa Cruz River	
SC-4 upstream 	SC-4 downstream
SC-5 upstream 	SC-5 downstream
SC-6 upstream 	SC-6 downstream

Santa Cruz River	
SC-7 upstream	SC-7 downstream
SC-8 upstream	SC-8 downstream
SC-9 upstream	SC-9 downstream

Santa Cruz River	
SC-10 upstream 	SC-10 downstream
SC-11 upstream 	SC-11 downstream
SC-12 upstream 	SC-12 downstream 

Tributaries	
Daw-1 upstream	Daw-1 downstream
Daw-2 upstream	Daw-2 downstream
SR-1 upstream	SR-1 downstream
	

Tributaries	
NHE upstream	NHE downstream
WR-1 upstream	WR-1 downstream
WR-2 upstream	WR-2 downstream

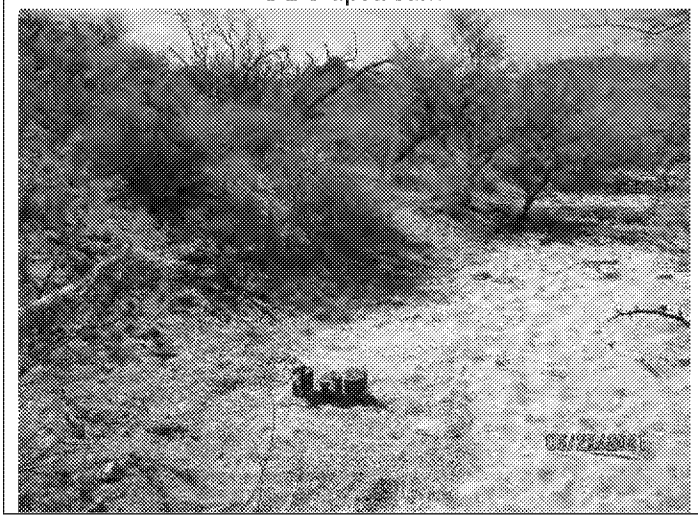
Tributaries	
SR-2 upstream	SR-2 downstream

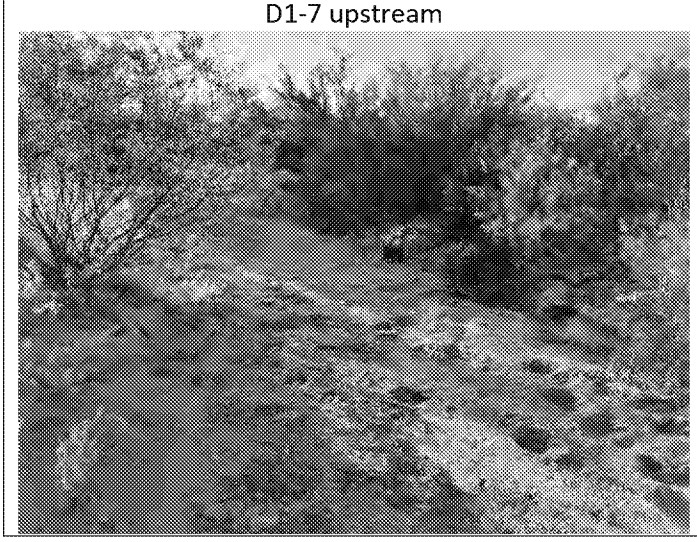
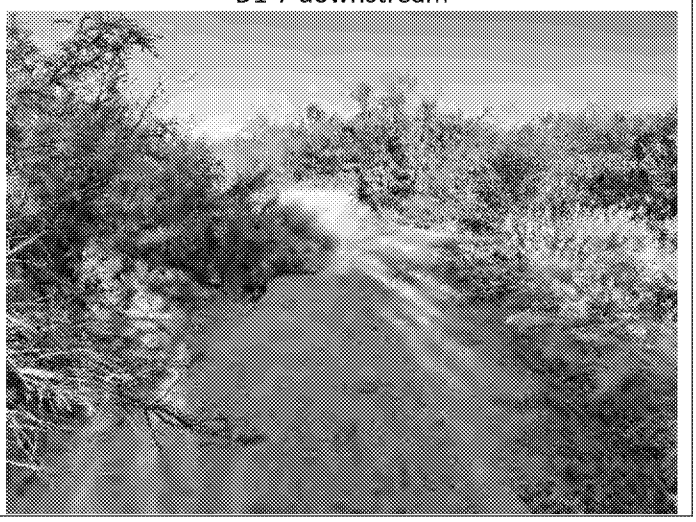
ATTACHMENT G

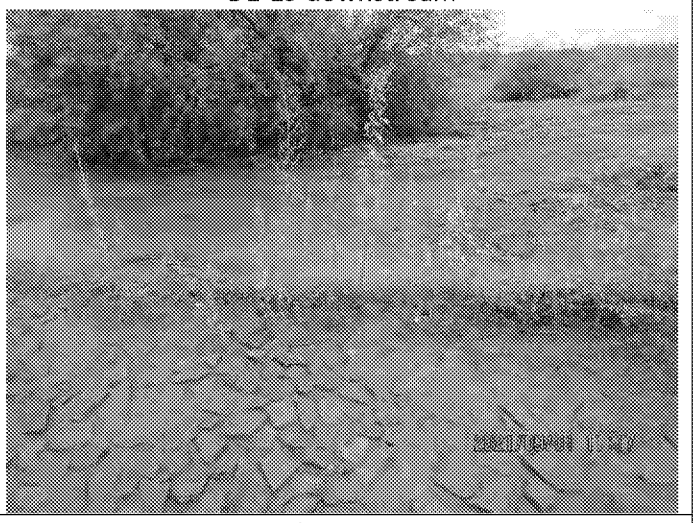
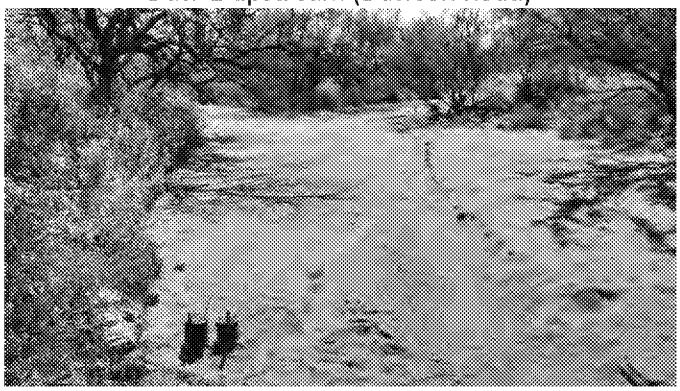
Stormwater Sample Location Photo Log

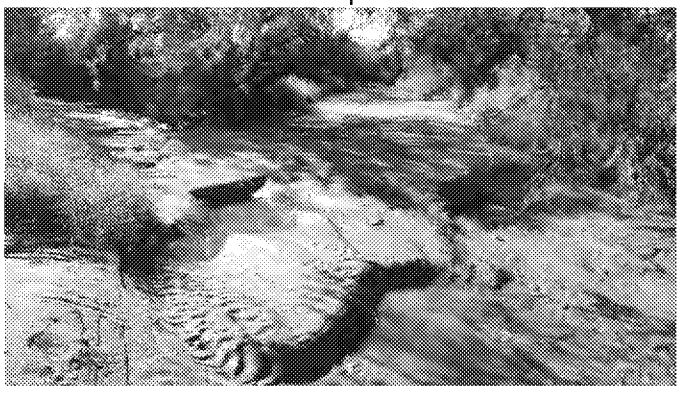
Drainage 1	
Below Smelter - upstream 	Below Smelter - downstream
Above Smelter - upstream 	Above Smelter - upstream
CW (Copper World) upstream 	CW (Copper World) downstream No Photo Taken

Stormwater Sample Location Photo Log

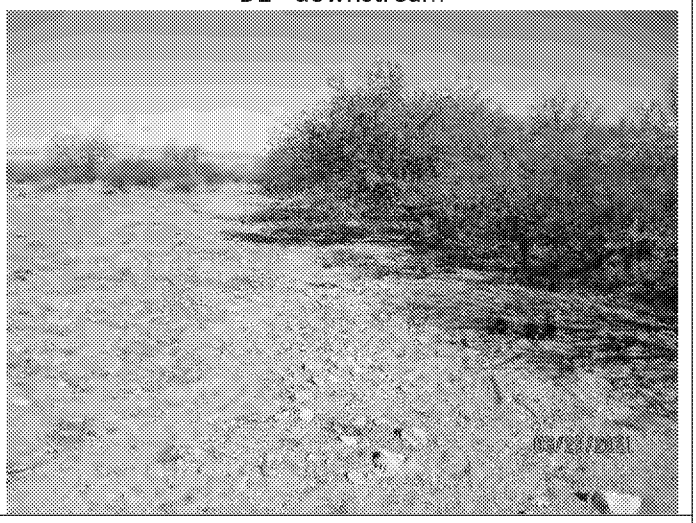
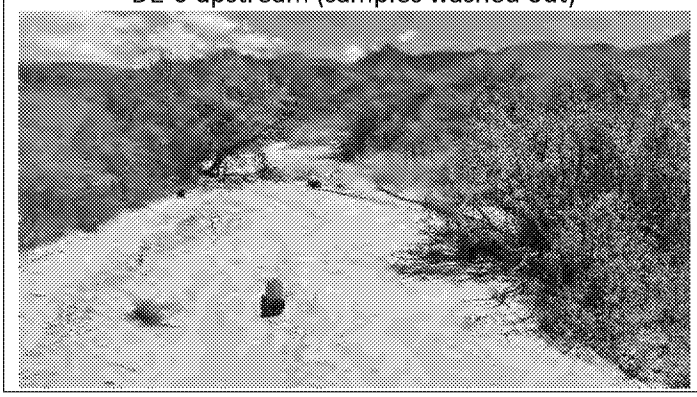
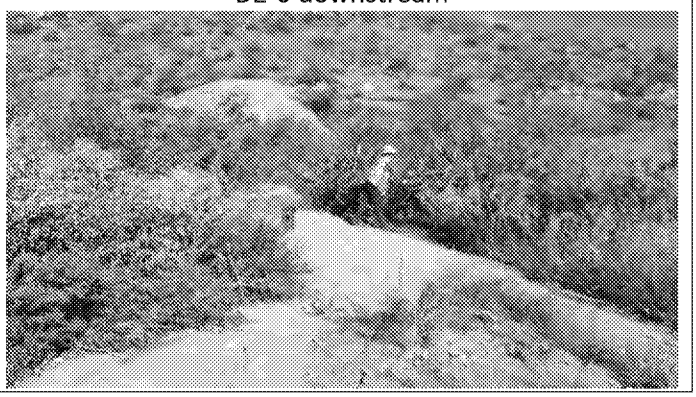
Drainage 1	
D1-1 upstream	D1-1 downstream
D1-2 upstream	D1-2 downstream
D1-3 upstream	D1-3 downstream
	

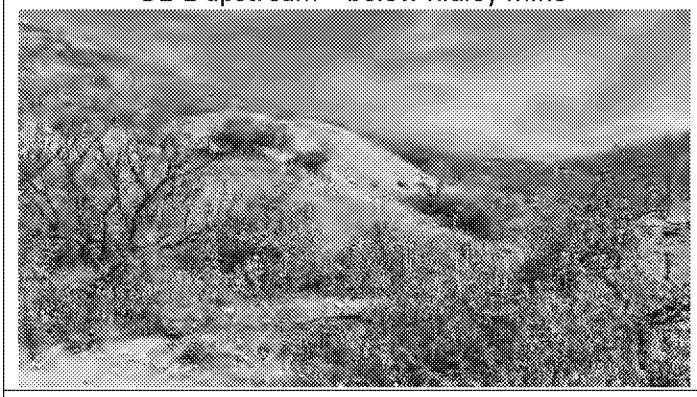
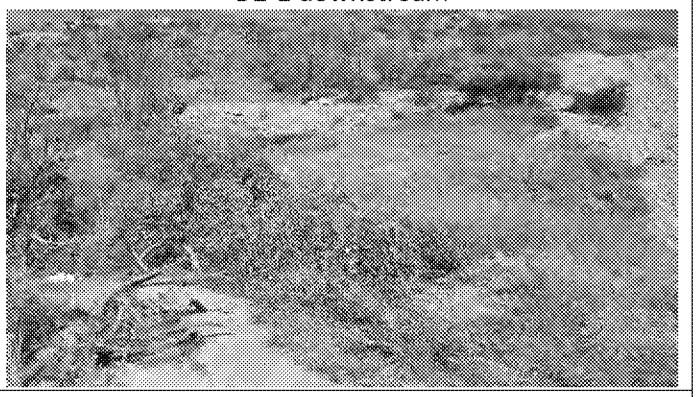
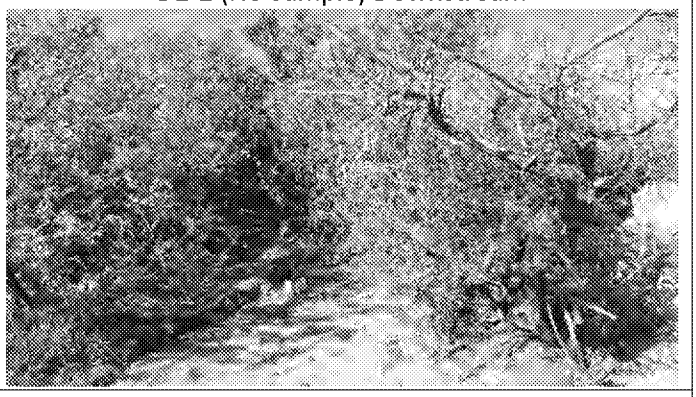
Drainage 1	
D1-4 upstream	D1-4 downstream
D1-5 downstream	D1-5 downstream
D1-7 upstream	D1-7 downstream
	

Drainage 1	
D1-19/D1-19 Barrel – upstream (Sahuarita Road)	D1-19 downstream 
NH upstream (Nogales Highway)	NH downstream
Daw-1 upstream (Dawson Road) 	Daw-1 downstream

Drainage 1	
Daw-2 upstream 	Daw-2 downstream
Daw-CC upstream 	Daw-CC downstream
Daw-4 	Daw-4

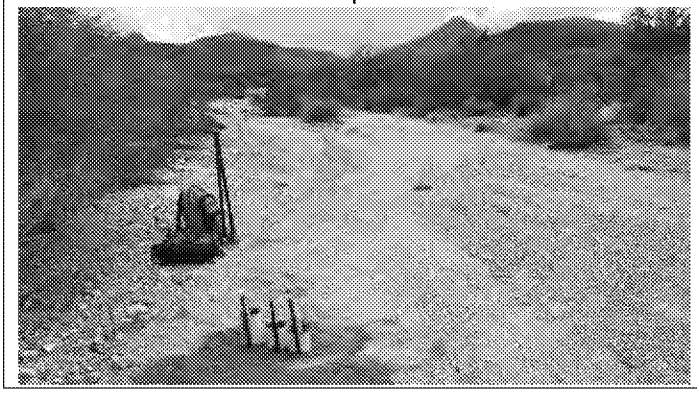
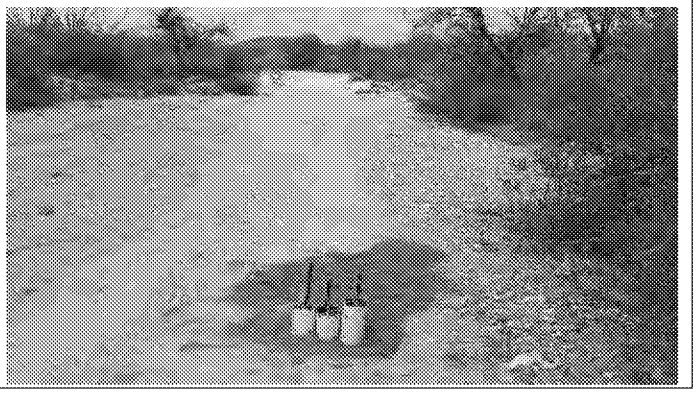
Drainage 1	
WGHS-W upstream	WGHS-W downstream

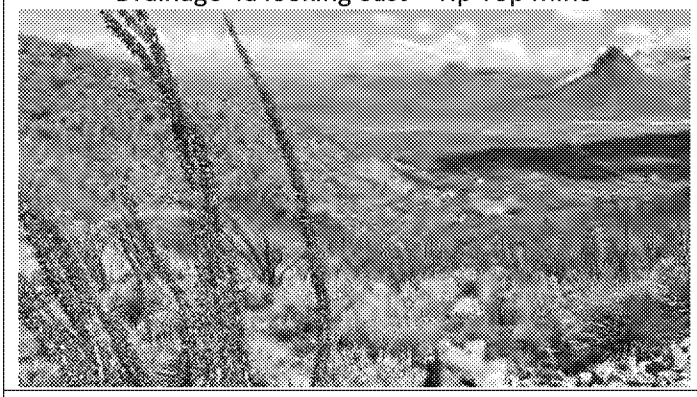
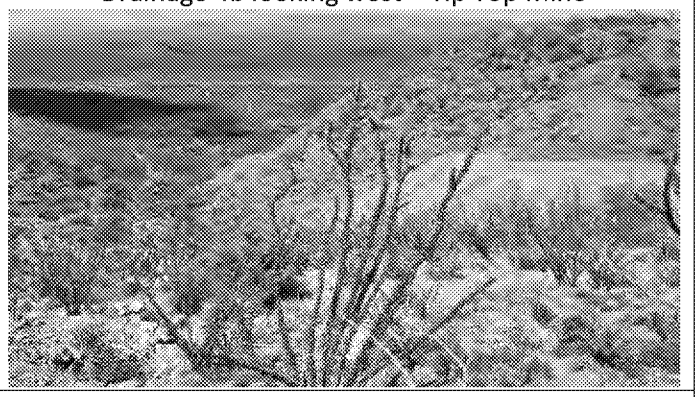
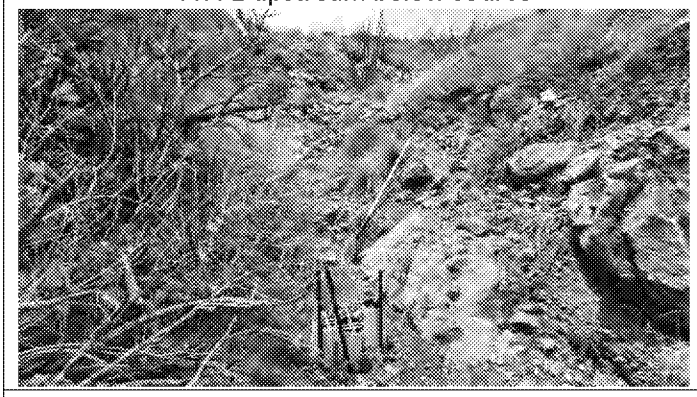
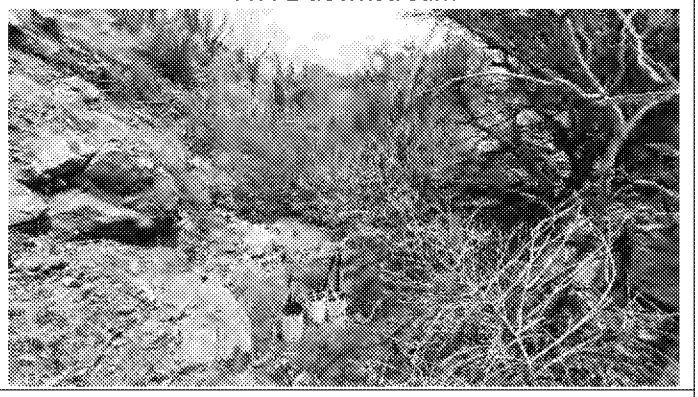
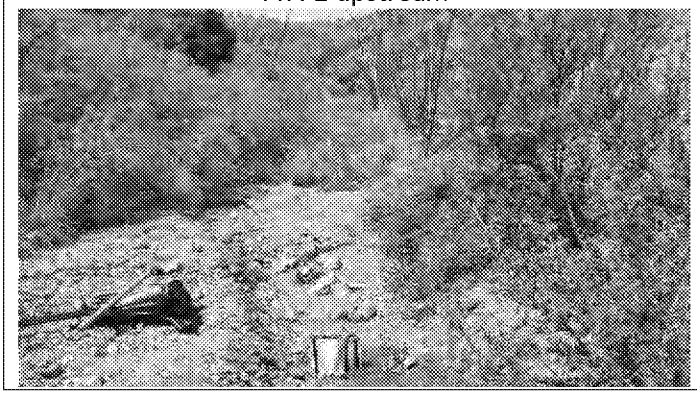
Drainage 2	
D2 - upstream	D2 - downstream
	
D2-0 upstream (samples washed out)	D2-0 downstream
	

Drainage 2	
D2-1 upstream – below Ridley Mine 	D2-1 downstream 
D2-2 (No Sample) 	D2-2 (No Sample) Downstream 
D2-NH upstream 	D2-NH downstream

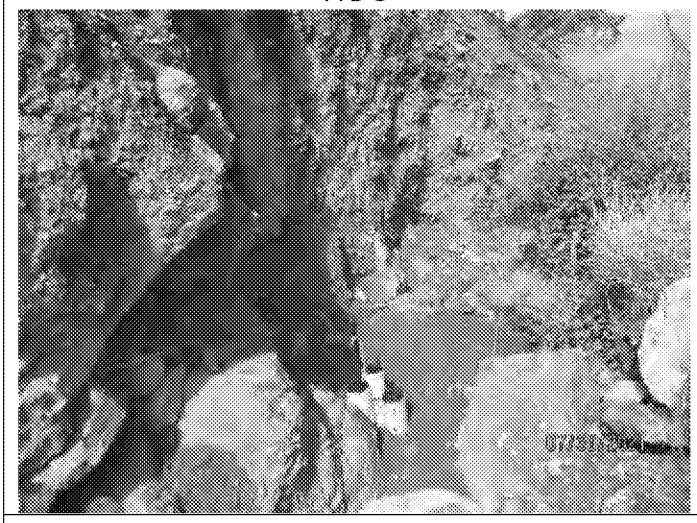
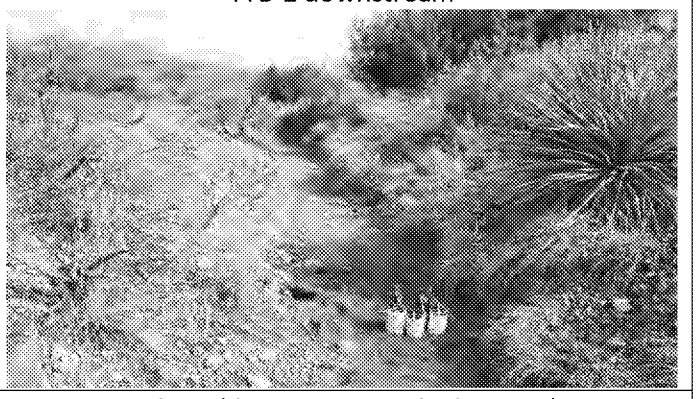
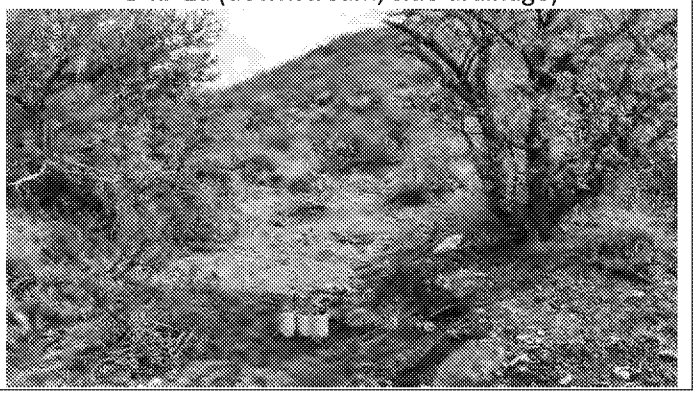
Drainage 2 (downstream of Santa Cruz River Confluence)	
SCR-RR upstream	SCR-RR downstream

Drainage 3	
D3-1 upstream	D3-1 downstream
D3-2 upstream	D3-2 downstream
	No Photo Taken

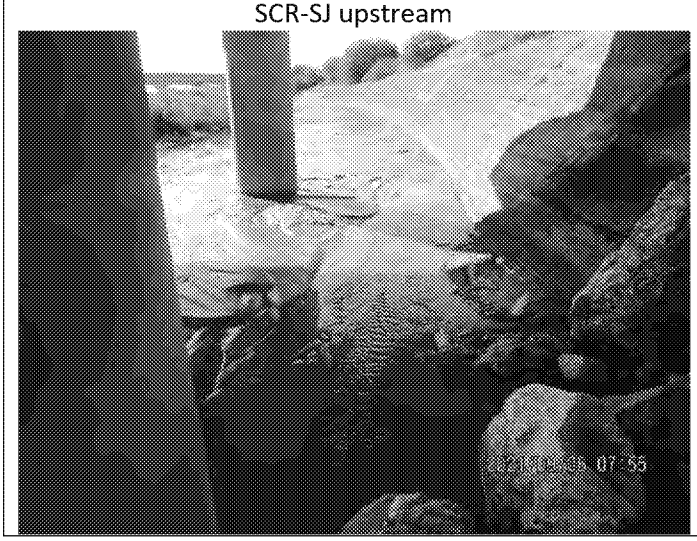
Drainage 4	
D4 upstream 	D4 downstream
D4a-1 	D4a-1
D4a-2 upstream 	D4a-2 downstream 

Drainage 4	
Drainage 4a looking east – Tip Top Mine	Drainage 4b looking west – Tip Top Mine
	
TTA-1 upstream below source	TTA-1 downstream
	
TTA-2 upstream	TTA-2 downstream
	

Drainage 4a	
TTA-3	TTA-3
TTB-1 upstream below source	TTB-1 downstream

Drainage 4	
TTB-3 	TTB-3 upstream
TTB-2 upstream No Photo Taken	TTB-2 downstream 
D4b-1a (upstream, side drainage)	D4b-1a (downstream, side drainage) 

Drainage 4	
D4b-1b (D4b-1)	D4b-1b (D4b-1)
D4b-2 upstream	D4b-2 downstream No Photo Taken

Santa Cruz River	
SCR-SJ upstream 	SCR-SJ downstream

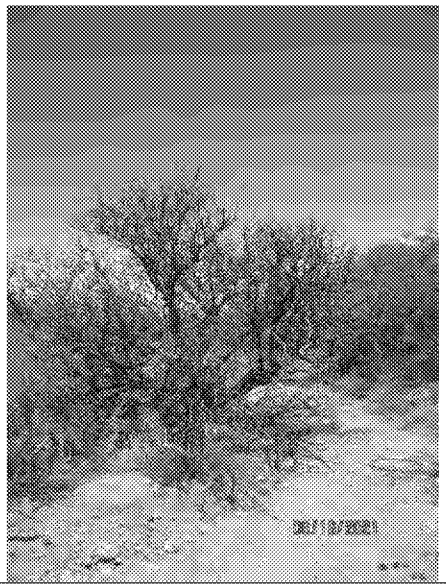
Santa Cruz River	
SCR-GT upstream 	SCR-GT downstream
SCR-22 upstream 	SCR-22 downstream
SCR-PR upstream 	SCR-PR downstream

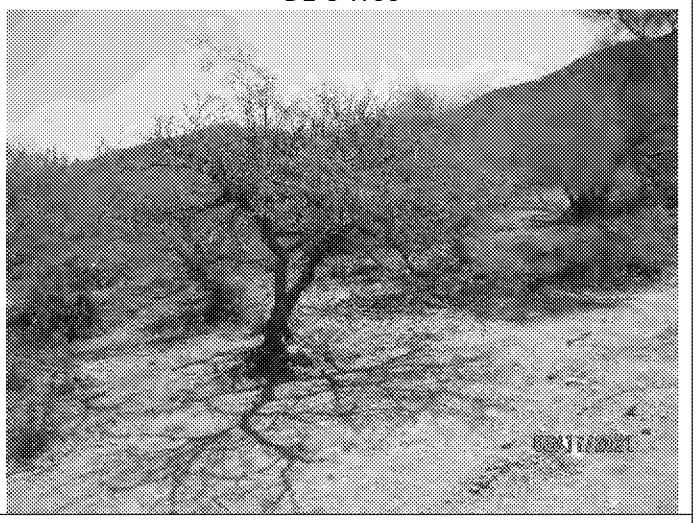
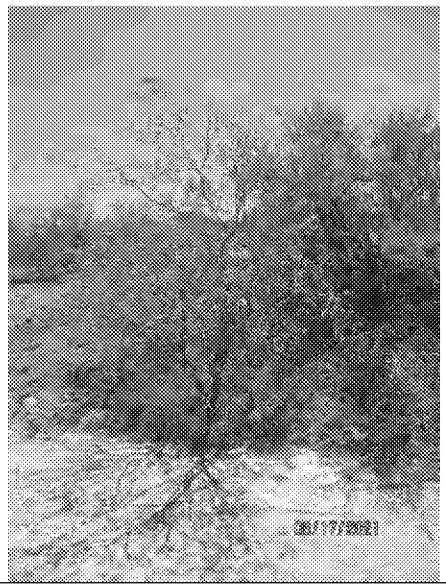
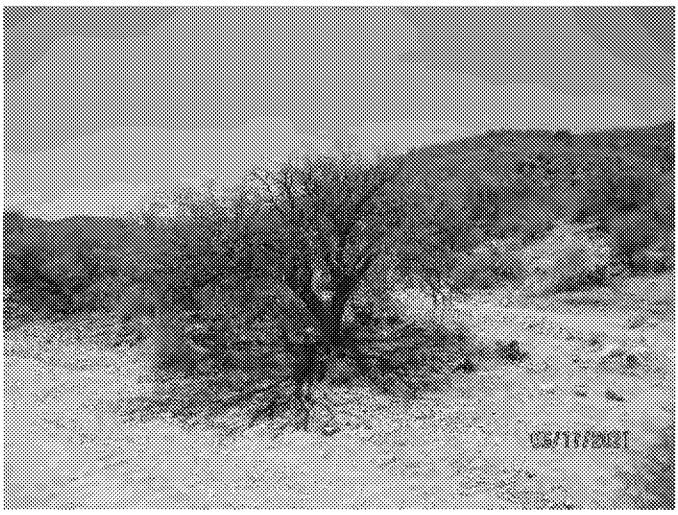
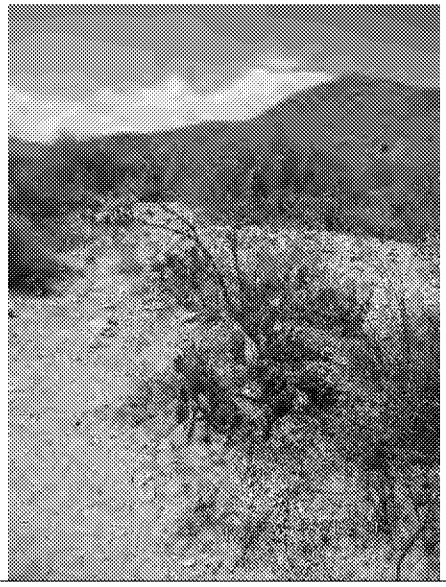
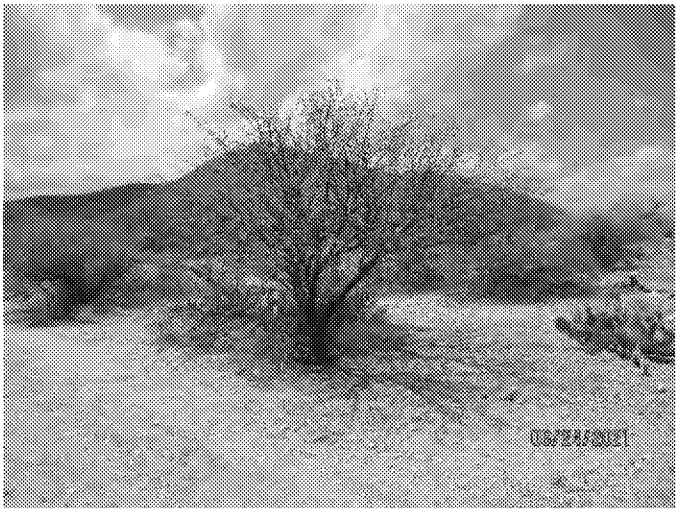
Santa Cruz River	
SCR-DN upstream	SCR-DN downstream
SCR-Ina upstream	SCR-Ina downstream

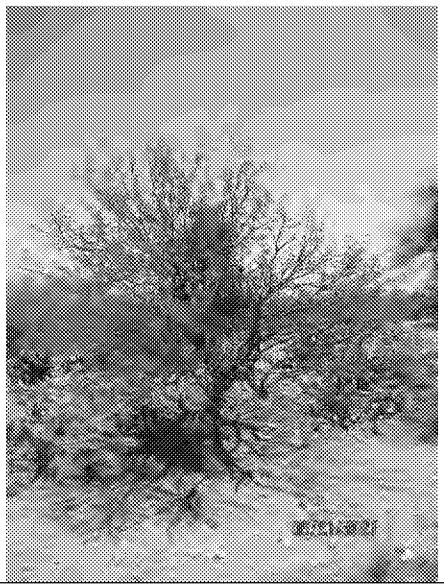
ATTACHMENT H

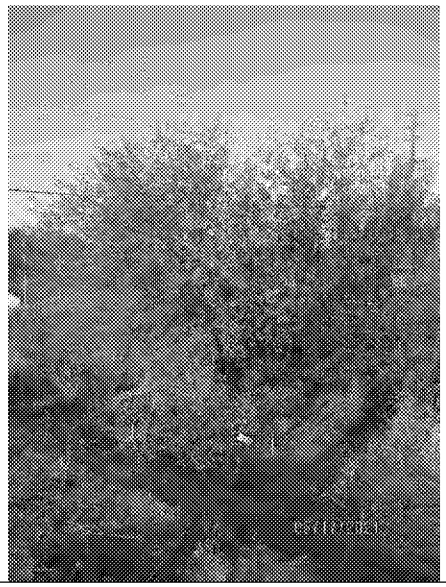
Plant Sample Photo Log

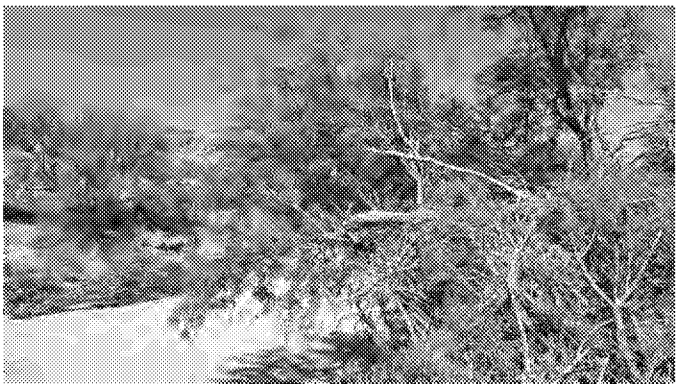
Plant Sample Photo Log

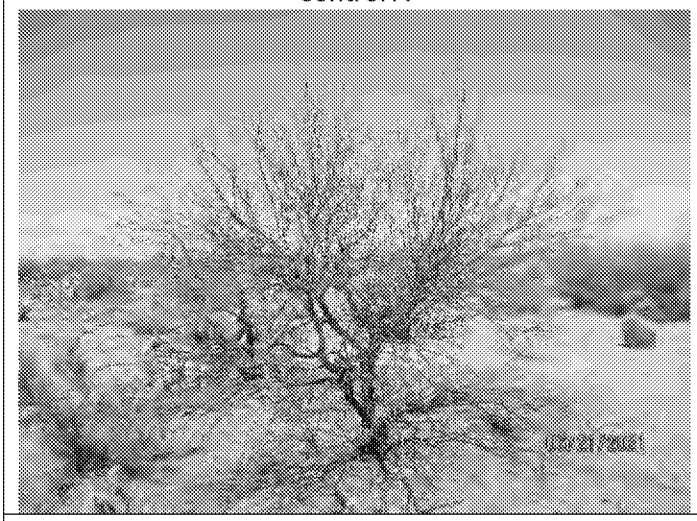
Drainage 1	
D1-1 	D1-2
D1-3 Tree 	D1-4 Tree 
D1-5 Tree 	D1-6 Tree

Drainage 1	
D1-7 Tree 	D1-8 Tree 
D1-9 Tree 	D1-10 Tree 
D1B-11 Tree 	D1A-12 Tree 

Drainage 1	
D1-13 Tree	D1-14 Tree
D1-15 Tree	D1-16 Tree
	
D1-17 Tree	D1-18 Tree

Drainage 1	
D1-19 Tree 	D1-19 south Tree
D1-20 Tree	D1-20A Tree

Drainage 1	
D1-20B Tree 	D1-21 Tree
D1-22 Tree 	D1-23 Tree 
D1-24 Tree 	D1-25 Tree

Drainage 1	
Control A 	Control B
Control C 	