

[0092250]

FACILITY STATUS CHANGE FORM (for DOE/RL-2010-34 Facilities)

Date Submitted: Apr 11, 2012 Originator: David Warren Phone: 539-6040	Area: 400 Area Facility ID: 4702 Action Memorandum: General Hanford Site Decommissioning Activities	Control #: D4-400-005
---	---	---------------------------------

This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- All removal actions require by action memo complete.
- Removal actions required by actions memo partially complete, remaining operations deferred.

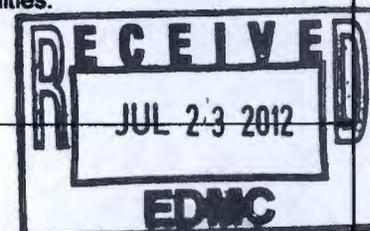
Description of Completed Activities and Current Conditions:

Decontamination and Decommissioning: If present, the following hazardous materials were removed prior to facility demolition: batteries, light bulbs, oils, grease, Regulated Asbestos-Containing Material (RACM), mercury, refrigerant, and polychlorinated biphenyl (PCB) containing equipment. Hazardous material removal and waste disposition was performed in accordance with the *Removal Action Work Plan for River Corridor General Decommissioning Activities, DOE/RL-2010-034*.

Demolition: The 4702 building was demolished in place in the 400 area in December of 2011, and the waste was loaded out and disposed of at the ERDF. Based on past uses of this facility and radiological scoping survey results, radiological contamination was not expected during demolition. Class II non-friable asbestos was the only contaminant of concern for demolition. Accordingly, the demolition was performed under asbestos controls. The facility footprint/excavation area was visually inspected for soil staining and anomalies, none were observed. The area was surveyed by GPS to delineate the extent of the excavations and mark the locations of any severed inactive utilities.

Description of Deferral (as applicable):

Not applicable.



Section 2: Underlying Soil Status

- No waste site(s) present. No additional actions anticipated.
- Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- Potential waste site discovered during removal action. Waste site identification number <to be> assigned.

Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

The 4702 building was demolished in place at the 400 area and the waste generated was loaded out and disposed of at the ERDF. A minimal amount of soil was disturbed during the removal process. No backfill material was needed to re-grade the area. A GPS survey was performed at the site following D4 activities to delineate the extent of removal and document any structures that may have been severed at the excavation boundary. See Attachment 4 for GPS survey results. The previous building site is currently clear of access restrictions or postings.

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

None.

Section 3: List of Attachments

1. Facility Information - Building History and Characterization

FACILITY STATUS CHANGE FORM (for DOE/RL-2010-34 Facilities)

2. Location Map/Pre and post Demolition Photographs.	
3. Email concurrence of no PTE for Specified 400 Area Buildings (Excerpts of CCN#157228)	
4. Post Demolition GPS Surveys	
Rudy Guercia 	4/12/2012
DOE-RL (Lead Agency)	Date

DISTRIBUTION:

DOE: Rudy Guercia, A3-04

Document Control, H0-30

Administrative Record, H6-08

SIS Coordinator: Benjamin Cowin, H4-22

D4 EPL: Clay McCurley, X5-50

Sample Design/Cleanup Verification: Megan Proctor, H4-22

FR Engineering: Rich Carlson, N3-30

FR EPL: Dan Saueressig, N3-30

Attachment 1: Facility Information

Introduction

This document provides information regarding the history, characterization, and final status at the completion of deactivation, decontamination, decommissioning, and demolition (D4) activities of the 4702 Building at the 400 area.

Building History:

The 4702 Building was located on Adams Street along the east side of the 400 Area. It provided office space for several different groups that supported the 400 Area activities, as well as a QA documentation storage vault, documentation center, computer room, and a mail room. The 4702 Building was originally located in the 100-N Area and was relocated to the 400 Area. The original structure consisted of three wood frame buildings which were connected together to form a 22,000 square foot structure on a concrete cinder block wall foundation. The exterior had shingle siding (transite), while the interior finish was 1/2-inch drywall. The building was cooled with heat pumps, swamp coolers and wall A/C units, and heated with baseboard heaters. Incandescent hall lighting and fluorescent fixtures provided lighting for the building. At one time, the building had connections to sanitary water and sewer, and was equipped with an active fire suppression system. See Attachment 2 for a map showing the location of the 4702 Building and pre and post-demolition photographs.

This building was not posted for radiological conditions. Based on historical research of past uses radiological contamination was not expected and the radiological scoping survey found no contamination. Additionally, the building was not on the Hanford beryllium facilities list. However, prior to onset of removal action activities the facility was surveyed for baseline radiological and IH conditions.

Building Characterization:

Table 1 summarizes the radiological control surveys, and asbestos samples collected in the 4702 Building. Additionally, the building was assessed for Industrial Hygiene Hazards, including Beryllium. A Beryllium facility assessment was completed for the Building, which resulted in the Building being characterized as a "Beryllium clean facility". Table 2 summarizes the contaminants of concern for facility demolition and the Management Practices implemented to minimize spread of those contaminants.

Table 1. Summary of Radiological Surveys and Asbestos Samples Collected for the 4702 Building

Type	Quantity	Method Detection Limits	Results
Radiological Scoping surveys	1 survey with multiple direct reading and smear locations	Beta-gamma – 1,000 removable/ 5,000 fixed ^a Alpha – 20 removable/ 500 fixed ^a	All results were less than the method detection limit.
Asbestos – Thermal System Insulation and Miscellaneous Material	239	<1% weight	62 samples contained asbestos concentrations greater than 1%. All other materials sampled were below the Method Detection Limit.
^a – dpm/100 cm ²			

Table 2. Contaminants of Concern for Facility Demolition

Contaminant of Concern	Management Practice
Non-friable Asbestos Containing Material (ACM)	Asbestos Containing Materials (ACM) were the only contaminant of concern for demolition of the 4702 Building. The Asbestos was in the form of Class II Materials (Non-friable and non-regulated ACM), and the facility demolition was performed under asbestos controls as defined in the associated work package. Class I RACM Thermal Systems Insulation (TSI) was removed from the attic crawlspace as required under the NESHAP standard. However, due to safety issues associated with safe access for abatement, Class I Regulated Asbestos Containing Materials (TSI wrap on piping) was left intact in the building crawlspace for demolition and subsequent abatement following removal of the above grade structure.

Aerial photo of 4702 Building before Demolition



Aerial photo of the 4702 Building site after Demolition



4702 FACILITY COMPLETION

Attachment 3: DOE approval of No PTE for Specified 400 Area Buildings (Excerpts from CCN#157228)

Page 1 of 2

^WCH Document Control

157228

From: Warren, David J
Sent: Thursday, March 17, 2011 10:39 AM
To: ^WCH Document Control
Cc: McCurley, Clay D
Subject: No PTE for specified 400 Area Facilities
Attachments: No PTE 400 Area Buildings.doc; 400 Area map.1.pdf; 400 area scoping surveys.pdf

The following correspondence represents a regulatory agreement. Please Chron this e-mail and attachments (3) as "DOE approval of No PTE for Specified 400 Area Buildings". Thanks.

Dave Warren
100-N EPL
539-8040

From: Guercia, Rudolph [mailto:Rudolph.Guercia@rl.doe.gov]
Sent: Thursday, March 17, 2011 9:58 AM
To: Warren, David J
Subject: No PTE for specified 400 Area Facilities

I have reviewed the below and concur documentation is acceptable emissions purposes for the buildings described below:

4831 Flammable Storage Building
4843 Building
4701-B Building
4702 Building
4706 Building
4719 Building
4722-B Building
4726 Building
4727 Building
4734-D Building
4790 Building
4791-TC Building
4814 Building

Please chron and document this agreement email and its 3 attachments and place in the project files.

RF Guercia
Field Engineering, Richland Operations Office
(509) 376-5494/(509) 373-0726 fax

From: Warren, David J
Sent: Monday, March 14, 2011 1:38 PM
To: Guercia, Rudolph
Subject: No PTE for 400 Area Facilities

3/17/2011

4702 FACILITY COMPLETION

Rudy,

Section 9.0 of the *Action Memorandum for General Hanford Site Decommissioning Activities*, DOE/RL-2010-22, Rev. 0, establishes the U.S. Department of Energy (DOE) as lead agency for the proposed removal action. This removal action includes scope managed under the *Removal Action Work Plan for River Corridor General Decommissioning Activities*, DOE/RL-2010-34, Rev. 0.

WCH is currently preparing to demolish several facilities in the 400 Area. This work falls within the scope documented in DOE/RL-2010-34, Rev. 0. Accordingly facility histories are attached that establish current conditions based on completed scoping surveys. DOE's concurrence is requested on the determination that an emissions estimate is not required prior to performing removal actions on these facilities. This request to DOE, as lead agency, is consistent with the methodology established in Section 4.3.2 of the current *Removal Action Work Plan for River Corridor General Decommissioning Activities*, (DOE/RL-2010-34, Rev. 0).

Please call if you have any questions.

Thank you,

Dave Warren
100-N Area EPL
539-6040

3/17/2011

4702 Building

Facility Description:

The 4702 Building provided office space for several different groups that supported the 400 Area activities, as well as a QA documentation storage vault, documentation center, computer room, and a mail room. The original structure consisted of three wood frame buildings (Building Numbers 14, 15 and 16) which are connected together (Annex East and West) to form a 22,000 square foot structure on a concrete foundation. The exterior has shingle siding (transite), while the interior finish is 1/2-inch drywall. The building is cooled with heat pumps, swamp coolers, and wall A/C units. Heating units are located in the attic and along the baseboards, and a Contempo HVAC unit was used in the computer room. Incandescent hall lighting and fluorescent fixtures provide lighting for the building. The fire-proof QA documentation storage vault is constructed of 7-5/8" thick concrete block. The sanitary water and sewer connections have been terminated, however, the electric utilities are active. The building still has an active fire suppression system.

Facility Location:

The 4702 Building is located on Adams Street along the east side of the 400 Area.

Facility History:

The 4702 Building was originally located in the 100-N Area and was relocated to the 400 Area. The building served as office space, records storage vault, furniture storage, and HLAN hub. The Hanford Patrol has recently been conducting training exercises within the building. The building is currently inactive.

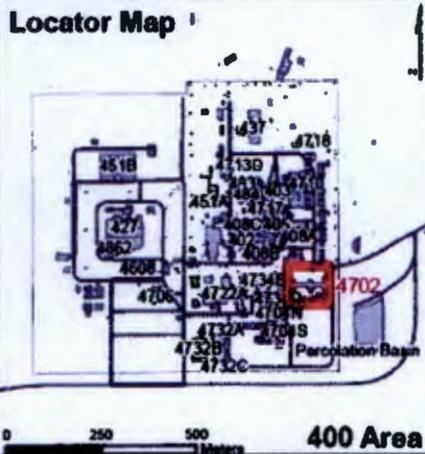
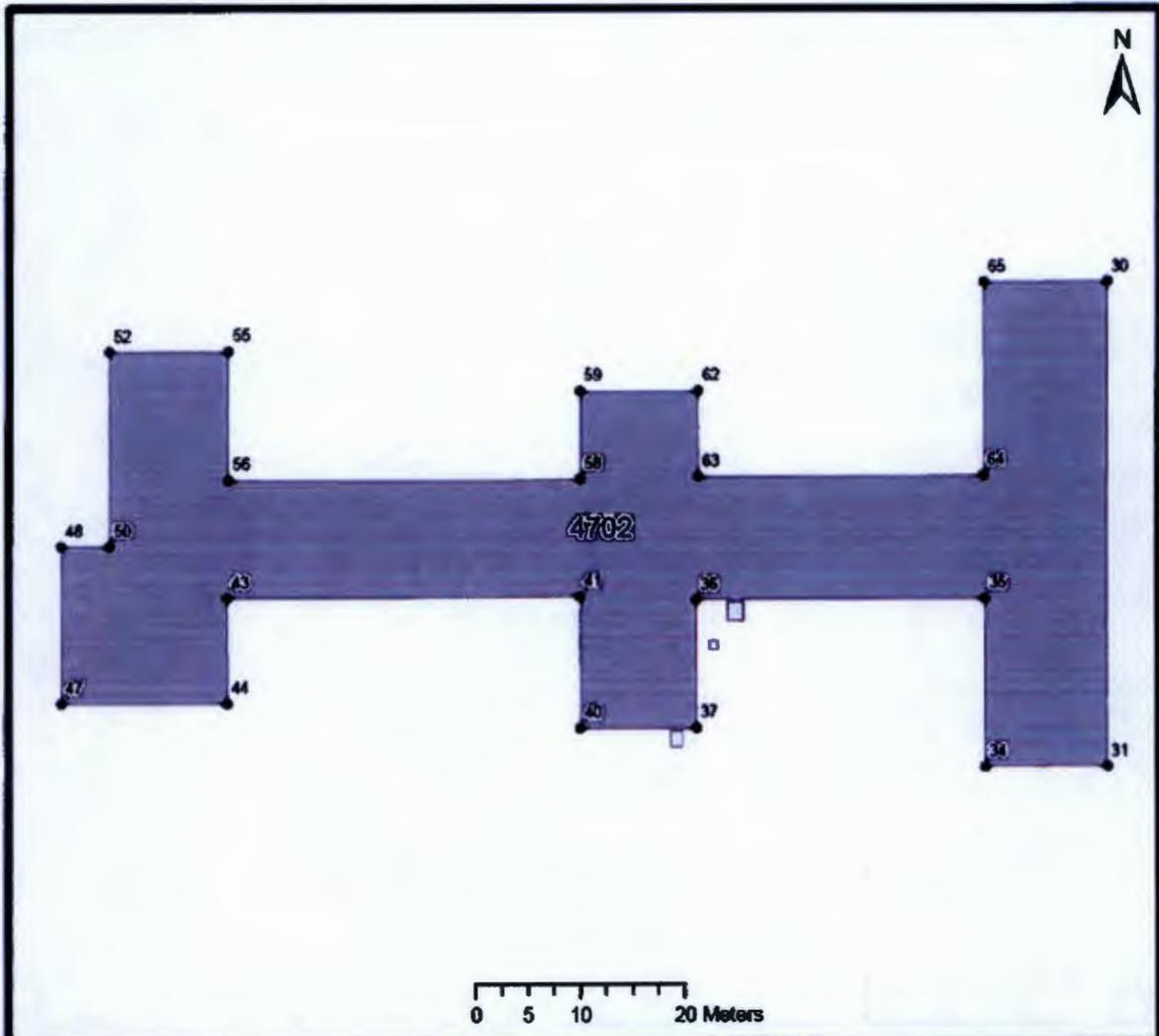
Radiological Contaminants of Concern:

Based on historical knowledge, radiological materials were never known to be used in the building and scoping survey (RSR-100-N-10-1144), completed in June of 2010, found no contamination.

Chemical Contaminants of Concern:

Asbestos, mercury switches, PCB light ballasts, tritium exit signs, oils, cooling refrigerant, lubricants, and greases may remain in the various systems throughout the building.

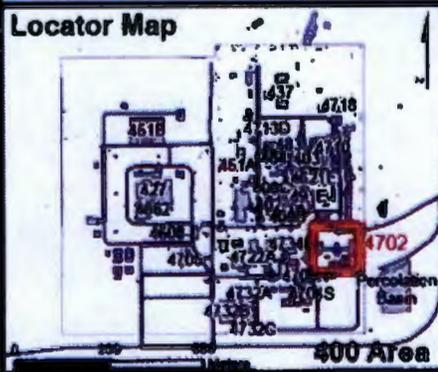
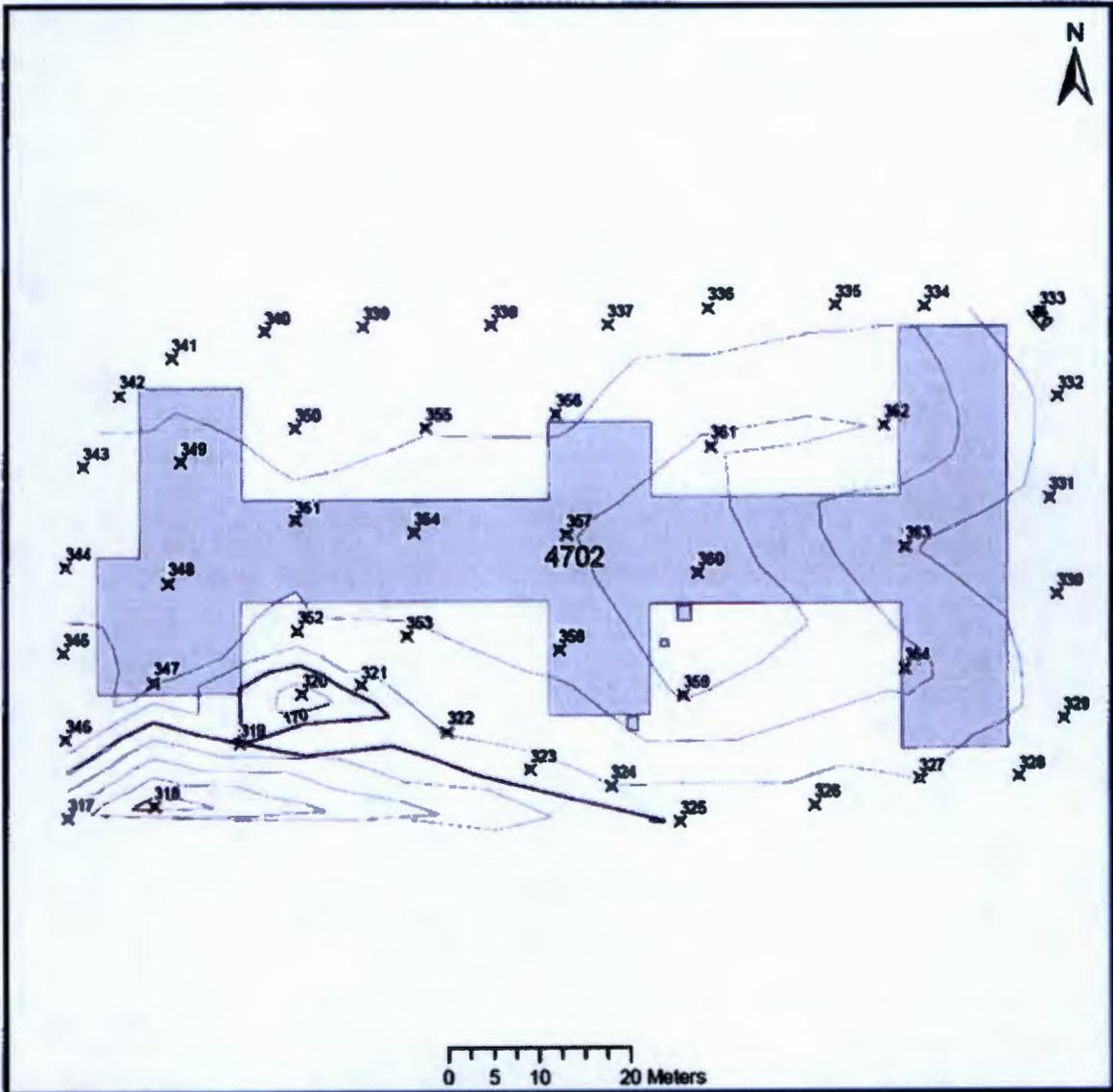
Attachment 4: 4702 Pre and Post-Demolition GPS Surveys



4702 Building Pre Demo Location

- Corner Locations (See Coordinates Below)
- Building Location Pre-Demolition
- Concrete Pad

400 Area Buildings			400 Area Buildings		
Point-ID	Easting	Northing	Point-ID	Easting	Northing
41	587707.06	122952.31	30	587757.53	122983.05
43	587673.19	122952.23	31	587757.64	122935.89
44	587673.22	122942.08	34	587745.86	122935.87
47	587657.3	122942.05	35	587745.82	122952.05
48	587657.27	122957.23	36	587718.23	122951.99
50	587661.97	122957.24	37	587718.25	122939.64
52	587661.92	122976.28	40	587707.08	122939.62
55	587673.28	122976.31	62	587718.37	122972.4
56	587673.3	122963.64	63	587718.39	122963.98
58	587707.04	122963.72	64	587745.68	122964.04
59	587707.02	122972.37	65	587745.64	122983.02



GPS Post Demo Survey Report For 4702 Building

- GPS Post Demolition Survey Points:
 × See GPS Survey Report for Point Details
- GPS Post Demolition Topography:
 — Major Contour 1 Meter Interval
 - - - Minor Contour .2 Meter Interval
 ■ Building Location Pre-Demolition

WC:\03\08\12\Y:\m\sys\Frd\Map\400\postdemo-4702.mxd, 5:47:18 PM

GPS Post Demolition Survey for 4702 Building

Project : post-demo-bldgs

Job 1145

User name	manyc	Date & Time	5:48:20 PM 3/8/2012
Coordinate System	US State Plane 1983	Zone	Washington South 4602
Project Datum	(WGS 84)		
Vertical Datum	NAVD88	Geoid Model	GEOID96 (Conus)
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Survey Project Name: 400 Area Post Demo Survey for Buildings
 Date: 6/28/2011
 Equipment: 5800
 Survey Purpose: Map excavations
 Requested By: Clay McCurley, Jack Danley, Bill Rodgers
 Location: 400 Area
 Charge Code:
 Field Surveyor: Margo Aye
 Survey Software Used: Trimble Survey Controller, and Geomatics Office V.11
 Survey Equipment Used: 5800
 Control Monuments Used: HSWB-122
 Survey Method: RTK
 Horizontal Precision: .020m
 Vertical Precision: .050m
 Fieldwork Start Date: 6/28/11
 Fieldwork Completion Date: 3/8/12
 Notes: This post demo survey was done on 3/8/12.

GPS Name	Northing	Easting	Elevation	Feature Code	Time/Date
317	122928.380m	587654.129m	170.489m	topo	
318	122929.676m	587663.588m	170.906m	topo	
319	122936.559m	587673.003m	170.004m	topo	
320	122942.081m	587679.864m	170.313m	topo	
321	122943.042m	587686.502m	169.855m	topo	
322	122937.782m	587695.950m	169.792m	topo	
323	122933.606m	587704.996m	169.845m	topo	
324	122931.810m	587713.895m	169.801m	topo	
325	122927.825m	587721.503m	169.974m	topo	
326	122929.616m	587736.226m	169.903m	topo	
327	122932.529m	587747.811m	169.795m	topo	
328	122932.779m	587758.833m	169.962m	topo	
329	122939.236m	587763.782m	169.887m	topo	
330	122952.986m	587762.997m	169.927m	topo	
331	122963.808m	587762.218m	169.868m	topo	
332	122975.180m	587763.073m	169.856m	topo	
333	122984.720m	587761.077m	170.042m	topo	
334	122985.394m	587748.307m	169.645m	topo	
335	122985.581m	587738.493m	169.659m	topo	
336	122985.246m	587724.550m	169.720m	topo	
337	122983.359m	587713.528m	169.691m	topo	
338	122983.292m	587700.710m	169.669m	topo	
339	122983.186m	587686.678m	169.647m	topo	
340	122982.606m	587675.740m	169.693m	topo	
341	122979.710m	587665.502m	169.698m	topo	
342	122975.490m	587659.726m	169.702m	topo	
343	122967.490m	587655.753m	169.509m	topo	
344	122956.235m	587653.808m	169.519m	topo	
345	122946.650m	587653.550m	169.642m	topo	
346	122937.082m	587653.813m	169.634m	topo	
347	122943.415m	587663.511m	169.574m	topo	
348	122954.463m	587665.123m	169.531m	topo	
349	122967.994m	587666.520m	169.513m	topo	
350	122971.738m	587679.167m	169.670m	topo	
351	122961.362m	587679.188m	169.546m	topo	
352	122949.137m	587679.412m	169.629m	topo	
353	122948.484m	587691.464m	169.631m	topo	
354	122959.957m	587692.286m	169.421m	topo	

355	122971.730m	587693.545m	169.615m	topo
356	122973.232m	587707.806m	169.644m	topo
357	122959.702m	587708.975m	169.415m	topo
358	122947.016m	587708.149m	169.525m	topo
359	122941.871m	587721.916m	169.385m	topo
360	122955.410m	587723.485m	169.241m	topo
361	122969.588m	587724.912m	169.370m	topo
362	122971.985m	587743.868m	169.403m	topo
363	122958.260m	587746.267m	169.786m	topo
364	122944.749m	587746.176m	169.538m	topo